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© OM protein - protein search, using SW model

Run on: May 18, 2006, 15:32:22 ; Search time 194 Seconds
 (without alignments)
 539.704 Million cell updates/sec

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

- 1: A_Geneseq_8:*
- 2: geneseqp1990s:*
- 3: geneseqp2000s:*
- 4: geneseqp2015:*
- 5: geneseqp2002a:*
- 6: geneseqp2003a:*
- 7: geneseqp2003bs:*
- 8: geneseqp2004s:*
- 9: geneseqp2005s:*
- 10: geneseqp2006s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

24	84.5	7.1	485	5	ABP51336	Abp51336 Human MDD
25	84	7.0	496	4	AAB5788	Abb5788 Human pro
26	84	7.0	496	4	ADC31196	Adc31196 Human nov
27	83.5	7.0	479	4	AAU9678	Aau9678 Propionib
28	83.5	7.0	479	6	ABM6197	Abm6197 Propionib
29	83	6.9	598	2	AAN69451	Aan69451 Microbial
30	83	6.9	598	2	AAW9463	Aaw9463 Microbial
31	83	6.9	598	2	AAW9457	Aaw9457 Microbial
32	83	6.9	598	2	AAM59458	Aam59458 Microbial
33	83	6.9	598	2	AAW9459	Aaw9459 Microbial
34	83	6.9	598	2	AAN59462	Aan59462 Microbial
35	83	6.9	598	2	Aav59460	Aav59460 Microbial
36	83	6.9	598	2	AAW9464	Aaw9464 Microbial
37	83	6.9	599	2	AAW9496	Aaw9496 Microbial
38	83	6.9	605	1	AAP0110	App0110 Polypepti
39	83	6.9	607	2	AAW9456	Aaw9456 Microbial
40	83	6.9	607	2	AAN59455	Aan59455 Microbial
41	83	6.9	663	5	ABU23749	Abu23749 Protein e
42	82.5	6.9	278	8	ADX2944	Adx2944 Plant ful
43	82.5	6.9	325	3	AYY0242	Ayy0242 Human cyc
44	82.5	6.9	493	8	ADT2405	Adt2405 Thale cre
45	82.5	6.9	493	9	AEA16977	Aea16977 Arabidops

Perfect score: US-09-942-052a-728

Sequence: 1 MAQPLRHRSRCATPPRGDF.....LKSLSMKILSEVTPDOSKPN 229
 Scoring table: BLOSUM62
 Gapop 10.0 , Gapext 0.5

Searched: 2589679 seqs, 457216429 residues

Total number of hits satisfying chosen parameters: 2589679

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

- 1: A_Geneseq_8:*
- 2: geneseqp1990s:*
- 3: geneseqp2000s:*
- 4: geneseqp2015:*
- 5: geneseqp2002a:*
- 6: geneseqp2003a:*
- 7: geneseqp2003bs:*
- 8: geneseqp2004s:*
- 9: geneseqp2005s:*
- 10: geneseqp2006s:*

ALIGNMENTS

RESULT 1

ID AAM40223 standard; protein: 229 AA.

ID AAM40223;

XX

DT 22-OCT-2001 (first entry)

XX

DE Human polypeptide SEQ ID NO 3368.

XX

KW Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;

KW peripheral nervous system; neuropathy; central nervous system; CNS;

KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;

KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;

KW chemokinetic; thrombolytic; drug screening; arthritis; inflammation;

KW leukaemia.

OS Homo sapiens.

XX

PN WO200153312-A1.

XX

PD 26-JUL-2001.

XX

PF 26-DEC-2000; 2000WO-US034263.

XX

PR 23-DEC-1999; 99US-00471275.

PR 21-JAN-2000; 2000US-00488725.

PR 25-APR-2000; 2000US-00552317.

PR 20-JUN-2000; 2000US-0059802.

PR 19-JUL-2000; 2000US-00620312.

PR 03-AUG-2000; 2000US-00653450.

PR 14-SEP-2000; 2000US-00662491.

PR 19-OCT-2000; 2000US-00693036.

PR 29-NOV-2000; 2000US-00727344.

XX

PA (HYSE-) HYSEQ INC.

XX

PA Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D,

PI Wang J, Wang Z, Weinman T, Xu C, Xue AJ, Yang Y, Zhang J, Zhao QA;

PI Zhou P, Goodrich R, Drmanac RT;

XX DR WPI; 2001-442253/47.

DR N-PSDB; AA159379.

PT Novel nucleic acids and polypeptides, useful for treating disorders such as central nervous system injuries.

PT as central nervous system injuries.

XX
PS Example 5; SEQ ID NO 3368; 10078pp; English.

THE INFLUENCE OF RELATIONSHIP ON HUMAN SUBJECTS 229

the invention relates to human nucleic acids (KAI5//98-KAI6199) and the encoded polypeptides (AM38642-AM2213) with nootropic, immunosuppressant and cytostatic activity. The polynucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: immune system suppression, Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, cancer diagnosis and therapy, drug screening, assays for receptor activity, arthritis and inflammation, leukaemias and C.N.S. disorders. Note: The sequence data for this invention did not form part of the printed specification.

Query	Match	Score 1198;	DB 4;	Length 229;
Best	Local	Similarity	100.0%;	Prd. No. 1e-126;
Matches	229;	Conservative	0;	Mismatches 0; Indels 0; Gaps 0;
Qy	1	MAAQPLRHRHSRCATP	PRGDPFGGTERAIDQASFTS	TSMENDTQVKGSSPLGPAGLGAEP 60
Db	1	MAAQPLRHRHSRCATP	PRGDPFGGTERAIDQASFTS	MENDTQVKGSSPLGPAGLGAEP 60
Qy	61	AAGPQLPSMQLPERCAVFOCAQH	AVLAWSVHLAWDLRSIGAVWFSRVTNTVLEAPL	120
Db	61	AAGPQLPSMQLPERCAVFOCAQH	AVLAWSVHLAWDLRSIGAVWFSRVTNTVLEAPL	120
Qy	121	VGEFGLSKGSTYNTILFCGCGGIPVGFLYSTHAALAA	LRLGHFCISDSKRNVCYLTKAIV	180
Db	121	VGISSLSKGSTYNTILFCGCGGIPVGFLYSTHAALAA	LRLGHFCISDSKRNVCYLTKAIV	180
Qy	181	NASEMDIQNVPLSEKIAELKEKIVLTHNLKSLMKILSEVTPODKPEN	229	
Db	181	NASEMDIQNVPLSEKIAELKEKIVLTHNLKSLMKILSEVTPODKPEN	229	

ABG34856
ID ABG34856 standard; protein; 229 AA.
XX

AC ABC34856:

BT 15-JUL-2002 (first entry)

DE HUMAN CANCER RELATED PROTEINS

Human: cytokeratin: SGP1B3: cancer: immunogen: chromo

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W0300318E78-13

xx
xx
xx

卷之三

卷之三

卷之三

xx

PI Jakobovits A;

DR WPI; 2002-382963/41.

卷之三

comprising a substance e.g. antibody specific to, nucleic acid encoding, or ribozyme of 85P1B3.

Caption 34: Fig 3: 2015: English

The invention relates to a composition comprising a substance that modulates the status of 85P1B3, where the status of a cell expresses 85P1B3 gene product is modulated. Also included are a composition comprising a peptide region of 5 amino acids of the 85P1B3 protein, in any whole number increment up to 229 that includes an aa position selected from an aa position having a value greater than 0.5 in the hydrophilicity profile, an aa position having a value less than 0.5 in the hydrophobicity profile, an aa position having a value greater than 0.5 in the percent accessible residue profile, an aa position having a value greater than 0.5 in the average flexibility profile, or an aa position having a value greater than 0.5 in the beta-turn profile; a polynucleotide that encodes analogue peptide of 8', 9', 10' or 11 contiguous residues of the 85P1B3 protein; a recombinant protein comprising the antigen-binding region of a monoclonal antibody; a non-human transgenic animal that produces an antibody that binds to the 85P1B3 protein; a hybridoma that produces antibody specific to the protein; a single chain

heavy and monoclonal antibodies specific to the protein; a vector comprising a polynucleotide that encodes the MAb; inhibiting growth of cancer cells or treating a patient who bears cancer cells that expresses the protein, by administering the protein, antibody, polynucleotide encoding the protein, antisense polynucleotide to the polynucleotide, ribozyme that cleaves the polynucleotide and T cells that specifically recognize the protein; and generating a mammalian immune response directed to the protein exposing cells of the mammal's immune system to an immunogenic portion of the protein or polynucleotide. The composition, which comprises an antibody specific to the protein, is useful for delivering a cytotoxic agent to a cell that expresses the protein by providing a cytotoxic agent conjugated to antibody and exposing the cell to the antibody-agent conjugate. The methods are useful for inhibiting growth of cancer cells or treating a patient who bears cancer cells that expresses the protein, for generating a mammalian immune response directed to the protein, for detecting the presence of the protein or polynucleotide in a biological sample in a patient who has or who is suspected of having cancer and for monitoring 85P1B3 in a biological sample from a patient who has or who is suspected of having cancer. The gene for 85P1B3 is located on human chromosome 15q14. The present sequence is the 85P1B3 protein.

br 22-OCT-2001 (first entry)
 XX DE Human polypeptide SEQ ID NO 6940.
 XX KW Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;
 KW peripheral nervous system; neurology; CNS;
 KW Alzheimer's, Parkinson's disease; Huntington's disease; haemostatic;
 KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
 KW chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
 KW leukaemia.
 OS Homo sapiens.
 XX PN WO200153312-A1.
 XX PD 26-JUL-2001.
 XX PF 26-DEC-2000; 2000WO-US034263.
 XX PR 23-DEC-1999; 99US-0047125.
 PR 21-JAN-2000; 2000US-00488725.
 PR 25-APR-2000; 2000US-00552317.
 PR 20-JUN-2000; 2000US-00598042.
 PR 19-JUL-2000; 2000US-00620312.
 PR 03-AUG-2000; 2000US-00653450.
 PR 14-SEP-2000; 2000US-006662191.
 PR 19-OCT-2000; 2000US-00693036.
 PR 29-NOV-2000; 2000US-00727344.
 PA (HYSE-) HYSEQ INC.
 XX DR N-PSDB; AA161165.
 XX PT Novel nucleic acids and polypeptides, useful for treating disorders such
 PT as central nervous system injuries.
 PS Example 2; SEQ ID NO 6940; 1078pp; English.

The invention relates to human nucleic acids (AAI157798-AAI161369) and the encoded polypeptides (AAM8642-AAM42213) with nootropic, immunosuppressant and cytostatic activity. The polynucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: immune system suppression, Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, cancer diagnosis and therapy, drug screening, assays for receptor activity, arthritis and inflammation, leukaemias and C.N.S disorders. Note: The sequence data for this patent did not form part of the printed specification

SQ Sequence 231 AA;

Query Match 100%; Score 1198; DB 4; Length 231;
 Best Local Similarity 100.0%; Pred. No. 1e-126; Mismatches 0; Indels 0; Gaps 0;

Matches 229; Conservative 0; CC 1 MAAPQLRHSRCATPPRGDFCGTERATDQASFTTSMEDWDTQVKGSSPLGGPAGLAREP 60
 3 MAAPQLRHSRCATPPRGDFCGTERADQASFTTSMEDWDTQVKGSSPLGGPAGLAREP 62
 61 AAQPOLPSWLQPERCAVFCQAOCHAVLADSVHLAWDLSRSLGAVFWRVTVNNVLEAPFL 120
 63 AAQPOLPSWLQPERCAVFCQAOCHAVLADSVHLAWDLSRSLGAVFWRVTVNNVLEAPFL 122

CC RESULT 4
 ABC34855 ID ABC34855 standard; protein; 164 AA.
 AC ABG34855;
 XX DT 15-JUL-2002 (first entry)
 DE Human cDNA 85P1B3 splice variant, open reading frame #3.
 XX KW Human; cytostatic; 85P1B3; cancer; immunogen; chromosome 15q14.
 OS Homo sapiens.
 XX PN WO200218578-A2.
 XX PR 07-MAR-2002.
 XX PR 28-AUG-2001; 2001WO-US026938.
 XX PR 28-AUG-2000; 2000US-022842P.
 XX PA (AGEN-) AGENSYS INC.
 XX PI Raitano AB, Farris M, Hubert RS, Afar D, Ge W, Challita-Bid P;
 XX PI Jakobovits A;
 XX DR WPI; 2002-382963/41.
 XX N-PSDB; ABK70504.

PS Composition for modulating the status of 85P1B3 protein or a molecule comprising a substance e.g. antibody specific to, nucleic acid encoding, or ribozyme of 85P1B3.

XX Example 38; Page 124; 201pp; English.

CC The invention relates to a composition comprising a substance that modulate the status of 85P1B3, where the status of a cell expresses 85P1B3 gene product is modulated. Also included are a composition comprising a peptide region of 5 amino acids of the 85P1B3 protein, in any whole number increment up to 229 that includes an aa position selected from an aa position having a value greater than 0.5 in the hydrophilicity profile, an aa position having a value less than 0.5 in the hydrophobicity profile, an aa position having a value greater than 0.5 in the percent accessible residue profile, an aa position having a value greater than 0.5 in the average flexibility profile, or an aa position having a value greater than 0.5 in the beta-turn profile; a polynucleotide that encodes analogue peptide of 8, 9, 10 or 11 contiguous residues of the 85P1B3 protein; a recombinant protein comprising the antigen-binding region of a monoclonal antibody; a non-human transgenic animal that produces an antibody that binds to the 85P1B3 protein; a hybridoma that produces antibody specific to the protein; a single chain monoclonal antibody (Mab) that comprises the variable domains of the heavy and monoclonal antibodies specific to the protein; a vector comprising a polynucleotide that encodes the Mab; inhibiting growth of cancer cells or treating a patient who bears cancer cells that expresses the protein, by administering the protein, antibody, polynucleotide encoding the protein, antisense polynucleotide to the polynucleotide, ribozyme that cleaves the polynucleotide and T cells that specifically recognize the protein; and generating a mammalian immune response directed to the protein exposing cells of the mammal's immune system to an immunogenic portion of the protein or polynucleotide. The composition, which comprises an antibody specific to the protein, is useful for delivering a cytotoxic agent to a cell that expresses the protein by

providing a cytotoxic agent conjugated to antibody and exposing the cell to the antibody-agent conjugate. The methods are useful for inhibiting growth of cancer cell or treating a patient who bears cancer cells that expresses the protein, for generating a mammalian immune response directed to the protein, for detecting the presence of the protein or polynucleotide in a biological sample in a patient who has or who is suspected of having cancer and for monitoring 85P1B3 in a biological sample from a patient who has or who is suspected of having cancer. The gene for 85P1B3 is located on human chromosome 15q14. The present sequence is the 85P1B3 protein

Sequence 164 AA;

Query Match 11.6%; **Score** 138.5; **DB** 5; **Length** 164;
Best Local Similarity 82.1%; **Pred.** No. 9e-07; **Mismatches** 88; **Indels** 22; **Gaps** 8;
Matches 52; **Conservative** 30; **Mismatches** 88; **Indels** 22; **Gaps** 8;

Qy 162 FCLSSDKMVKYLKKAIVNASEMIDQNPVPLSEKIAELK 200
Db 2 FFLS---YLKKKAIVNASEMIDQNPVPLSEKIAEVK 35

RESULT 5

AAM93668 11.6%; Score 138.5; DB 5; Length 164;
 ID AAM93668 standard; protein; 233 AA.
 XX
 AC AAM93668;
 DT 06-NOV-2001 (first entry)
 XX
 DE Human polypeptide, SEQ ID NO: 3550.
 XX Human; full length cDNA; cDNA synthesis; oligo-capping.
 KW Homo sapiens.
 OS Homo sapiens.
 PN EPI130094-A2.
 XX
 PD 05-SEP-2001.
 XX
 PF 07-JUL-2000; 2000EP-00114089.
 XX
 PR 08-JUL-1999; 99JP-00109486.
 PR 11-JAN-2000; 2000JP-0018774.
 PR 02-MAY-2000; 2000JP-00183765.
 XX
 PA (HELI-) HELIX RES INST.
 XX
 PT Ota, T., Nishikawa, T., Isogai, T., Hayashi, K., Ishii, S., Kawai, Y.;
 PI Wakamatsu, A., Sugiyama, T., Nagai, K., Kojima, S., Otsuki, T., Koga, H.;
 XX
 DR WPI; 2001-524255/58.
 DR N-ISDB; AAK9403.

RESULT 6

AAG93290 9.4%; Score 113; DB 4; Length 233;
 ID AAG93290 standard; protein; 233 AA.
 XX
 AC AAG93290;
 DT 13-SEP-2001 (first entry)
 XX
 DE Human protein HP10650.
 XX Human; gene therapy; tumour.
 XX
 OS Homo sapiens.
 XX
 PN WO200142302-A1.
 XX
 PD 14-JUN-2001.
 XX
 PF 06-DEC-2000; 2000WO-JP008631.
 XX
 PR 06-DEC-1999; 99JP-00346863.
 PR 05-DEC-1999; 99JP-00346864.
 PR 08-FEB-2000; 2000JP-00031062.
 PR 10-FEB-2000; 2000JP-0003090.
 PR 10-FEB-2000; 2000JP-00034091.
 PR 14-FEB-2000; 2000JP-00035829.
 PR 14-FEB-2000; 2000JP-00035839.
 PR 14-MAR-2000; 2000JP-00071161.
 PR 30-MAY-2000; 2000JP-00160851.
 XX
 PA (NISC-) JAPAN SCI & TECHNOLOGY CORP.
 XX
 PT 830 Primers useful for synthesizing full length cDNA clones and their use in genetic manipulation.
 XX
 PS Claim 8; SEQ ID NO 3550; 1380PP + Sequence Listing; English.

The invention relates to primers for synthesising full length cDNA clones. 830 cDNA molecules encoding a human protein have been isolated and nucleotide sequences of 5'- and 3'-ends of the cDNA molecules have been determined. Primers for synthesising the full length cDNA are useful for clarifying the function of the protein encoded by the cDNA. The full length clones were obtained by construction of full length enriched cDNA libraries that were synthesised by the oligo-capping method. The primers enable the production of the full length cDNA easily without any special methods. The present sequence is a polypeptide encoded by a full length human cDNA of the invention. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in CD-ROM format directly from EPO

Sequence 233 AA;

Query Match 9.4%; **Score** 113; **DB** 4; **Length** 233;
Best Local Similarity 27.1%; **Pred.** No. 0.0012; **Mismatches** 88; **Indels** 22; **Gaps** 8;
Matches 52; **Conservative** 30; **Mismatches** 88; **Indels** 22; **Gaps** 8;

Qy 31 ASPTTSMWDTQVKGSSPLGGPAGLGBEPAPCQPLSWLQPERCAVQOCQAOHVLADS 90
Db 49 ASWSSMSBEDASV...ADMERQL...BEBAAAE...--EPRPVTCGCRPRPGD 95
 91 VHLAWDLSR-SLGAAWFSRVNTVNLRAFPFLVGIEGLKGSTYNLLFGCGSGTIPVGFLHY 149
 96 ...LISWASQBDTNCILRCVSCNVSVDEQKUSKRKEKENGCVBLTCCAGCSLNLYGVYR 153

Qy 150 SWHAALALRGHCLOSSDMVLL-KTKAIVNASEMIDQNPVPLSEKIAELKIVTH 207
Db 154 CTPKNDOKRDRFLCLSYEALESYVVLGSSEKQIV-SEDKELENL--ESRVEIJKSLTOM 209

Qy 208 NRKLKLMKILSE 219
Db 210 DVLRALQWKLWE 221

	XX	SQ	Sequence	233 AA;
Query	Match	94%	Score 113; DB 4;	Length 233;
Best Local Similarity	27.1%	Pred. No. 0.0012;		
Matches	53;	Conservative	30;	Mismatches 88; Indexes 22; Gaps 9;
Oy	31	ASPTTSMEWDTQVVKKSSPLPGAGIAAEPAAGROUPWSLQPERCAVFOCAQCHAVALDS	90	
Db	49	ASMWSSWMSEDASV--ADMERAQL--EEBRAAAR-----ERPLVFLGSGCRPRPLGDS	95	
Ov	91	VHTAMIDSP-SIGAAVSFSPNTMNTTAPPTVCTCFSRSTKSTVWMLPQSCCTVWCPY	149	

CC useful for drug screening assays, as well as therapeutic targets. The present invention describes a method for identifying such proteins that can be used in the treatment of various diseases associated with altered mitochondrial function including diabetes mellitus, Huntington's disease, osteoarthritis, Leber's hereditary optic neuropathy (LHON), mitochondrial encephalopathy, lactic acidosis and stroke (MELAS), myoclonic epilepsy, ragged red fiber syndrome (MERRF) or cancer. Accordingly, these compositions have neuroprotective, nootropic, antidiabetic, anticonvulsant, antiarthritic, osteopathic, ophthalmological and cytotoxic activities. This polypeptide sequence is a human heart mitochondrial protein of the invention.

Db	96	--LSWVAVASOEDTNCTNCLIRVCNSVNWKDEQKLSKRKEKGCVLTLCCAGCSLNLYGTYR	153
Qy	150	STHAMALAALRGHFCISSDKRKYVLL--KTKAIVANASEMDTQNVPULSEKIAELKEKVILH	207
Db	154	CTPKNDIYKRDIFCISVEAIESYVIGSSEKQIV-SEDKSLFNL--ESRVEIEKSLTQME	209
Qy	208	NRLKSUMKJLSE	219
Db	210	: :	221
		DVLKALQMKLWE	

	Sequence	Length	Score	DB	Gaps
Query Match	9.4%	113	7	233	
Best Local Similarity	27.1%	Pred. No.	0.0012		
Matches	52	Mismatches	88	Indels	22
Qy	31 ASFTTSMEMDPTQVKGSPLPGAGAERPAGPQLPSWLOPERCAQCHAVALPS : : : : : : : : : : : : : : : : : 49 ASMWSSSMSEDASV---ADMERAQL---EREEAAAME-----ERPLVFLCGRRLPGDS	90	95		
Db					

RESULT 7
ADD69163
ID ADD69163 standard; protein; 233 AA.
XX
AC
XX
ADJ69163;
XX
DT
06-MAY-2004 (first entry)
XX
Human heart mitochondrial protein as a therapeutic target Santiago

XX
KW mitochondrial; human; screening assay; diabetes mellitus;
KW Huntington's disease; osteoarthritis;
KW Leber's hereditary optic neuropathy; LHN;
KW mitochondrial encephalopathy lactic acidosis and stroke; MELAS;
KW myoclonic epilepsy; ragged red fibre syndrome; MERRF; cancer;
KW neuroprotective; nootropic; antidiabetic; anticonvulsant; antiarthritic;
KW osteopathic; ophthalmological; cytostatic.
OX
Home sapiens.

RESULT 8
ADL31517
ID ADL31517 standard; protein; 233 AA.
XX
AC ADL31517;
XX
DT 20-MAY-2004 (first entry)
XY

XX PN WO2003087768-A2.
XX PD 23-OCT-2003.
XX 04-APR-2003; 2003WO-US010870.
XX 12-APR-2002; 2002US-0372843P.
PR 17-JUN-2002; 2002US-0389987P.
PR 20-SEP-2002; 2002US-04122418P.

DE Human protein encoded by a full length cDNA clone SeqID 3550.
XX
KW human; medicine; signal transduction; glycoprotein; transcription;
oligo-capping method.
XX
OS Homo sapiens.
XX
PN EPI396543-A2.
XX
PD 10-MAR-004.

XX PA
 PA (MITO-) MITOKOR.
 PA (BUCK-) BUCK INST AGE RES.
 XX PT
 PT Ghosh SS, Fahy ED, Zhang B, Gibson BW, Taylor SW, Glenn GM;
 PI Warnock DE;
 XX DR WPI, 2003-845369/78.
 XX
 Identifying a mitochondrial target for drug screening assays and for

XX
PF 07-JUL-2000; 2003EP-00025638.
XX PR 08-JUL-1999; 9901P-00194486.
PR 11-JAN-2000; 2000EP-00118774.
PR 02-MAY-2000; 2000IP-00183865.
PR 07-JUL-2000; 2000EP-00114089.
XX PA (REAS-) RES ASSOC BIOTECHNOLOGY.
XX

PT treating diseases associated with altered mitochondrial function,
PT comprises detecting a modified polypeptide in a sample and correlating
PT with the disease.

XX

PS

Claim 1, SEQ ID NO 969; 180pp; English.

CC This invention relates to novel mitochondrial targets that can be used
CC for therapeutic intervention in treating a disease associated with
CC altered mitochondrial function. Specifically, it refers to a method for
CC identifying proteins of the human heart mitochondrial proteome that are

PI Ota T, Nishikawa T, Isogai T, Hayashi K, Ishii S, Kawai Y;
 PI Wakamatsu A, Sugiyama T, Nagai K, Kojima S, Otsuki T, Koga H;
 XX
 DR WPI; 2004-204755/20.
 DR N-PSDB; ADJ15156.
 XX
 PT New oligonucleotide primers (830 cDNAs) useful for synthesizing full
 PT length human cDNAs.
 XX
 PS Example 1: SBO ID NO 3550: 1340bp; English.

XX
CC This invention relates to a novel primers useful for synthesising full
CC length cDNA molecules that encode human proteins. Specifically, it refers
CC to secretory or membrane proteins that are potential therapeutic agents/
CC target molecules in the field of medicine, and in particular genes
CC encoding proteins that are associated with signal transduction, the present invention describes a method
CC for glycoproteins and transcription. The present invention also describes a method
CC for efficiently cloning a full length human cDNA from both the 5' and 3'
CC ends using the oligo-capping method. This polypeptide sequence is a full
CC length human protein of the invention.

XX
SQ Sequence 233 AA;

Query Match 9.4%; Score 113; DB 8; Length 233;
Best Local Similarity 27.1%; Pred. No. 0.0012; Mismatches 88; Indels 22; Gaps 8;
Matches 52; Conservative 30; Mismatches 88; Indels 22; Gaps 8;
QY 31 ASETTSMWDTQVWKGSPLGPAGLQPQLPWLQPERCAVFOCAHVAIADS 90
49 ASKWMSSMSBDAV---ADMERQQL--EEBAAAE----ERPLVFLCSGCRRLPQDS 95
Db 91 VHJAWLDSR-SLGAVFWSRVNNVLEAPFLVIGLSIKGSTNLFGCGCGIPVGFLHY 149
QY 96 -L-SWVAQEDTCILLACSCVNSVDEQKSKREKINGCVETLCCAGCSNLGYTR 153
Db 150 STHAALAAARGHFCCLSSDKVNCYL--KTKATVNAEMDIQNPULSEKTAELKEKIVLTH 207
QY 154 CTPKALDYKRDLFCLSVEALESYVGLGSSEKQIV-SEDKELFLN--ESRVIEKSITOME 209
QY 208 NRURKSLMKLSE 219
Db 210 DVVLKALQMKLWE 221

RESULT 9

ID ABB54167 standard; protein; 695 AA.
XX
AC ABB54167;
XX
DT 29-AUG-2003 (revised)
16-MAY-2002 (first entry)
XX
DE Lactococcus lactis protein YihC.
XX
KW Biosynthesis; biodegradation; lactic bacterium; yogurt; cheese.
XX
OS Lactococcus lactis; INI403.
XX
PN FR2807446-A1.
XX
PD 12-OCT-2001.
XX
PF 11-APR-2000; 2000FR-00004630.
XX
PR 11-APR-2000; 2000FR-00004630.
XX
PA (INRG) INRA INST NAT RECH AGRONOMIQUE.
XX
PI Bolotine A, Sorokine A, Renault P, Bhrlich SD;
XX
DR WPI; 2002-043418/06.
XX
PT New nucleotide sequence useful in the identification or lactococcus
lactis and related species.
XX
PS Claim 6; SEQ ID NO 869; 250pp; French.

The present invention is related to a lactococcus lactis nucleotide sequence (AB590521) and related proteins (ABB53300-ABB55621). The nucleic acid sequence is useful in the detection and/or amplification of nucleic acid sequence, particularly to identify Lactococcus lactis or related species. The proteins of the invention are useful for the biosynthesis or

CC biodegradation of a composition of interest. The invention helps research
CC in lactic bacteria, particularly useful in the production of yogurt and
cheese. Note: The sequence data for this patent is based on equivalent
CC patent WO20017734 (published 18-Oct-2001) which is available in
CC electronic format directly from WIPO at
CC ftp://ipo.int/pub/published_pct_sequences. (Updated on 29-Aug-2003 to
CC standardise OS field)

XX
SQ Sequence 695 AA;

Query Match 7.7%; Score 92; DB 5; Length 695;
Best Local Similarity 25.3%; Pred. No. 1.5; Mismatches 50; Indels 34; Gaps 7;
Matches 38; Conservative 28; Mismatches 50; Indels 34; Gaps 7;
QY 101 LGAVWFSRVNNVLEAPFLVIGLSIKGSTNLFGCGCGIPVGFLHYSTHALALRG 160
Db 101 LGTITF-----FYSGIPPFSGAKGEKSRKFAAMMILITMGITVAY-AVSYVATINSLING 153
QY 161 HF-----CLSSDKVNCYLKTKAVNASEMDIQNPULSEKTAELKEKIVLTH 195
Db 154 HMGNNFWFELATLIVMLIGHJLEMKAGDALKOLASLVPKKIAHLKSGKDVESELK 213
QY 196 IAEELKEKVVLTHNLKSLMKLSEVTDPQS 225
Db 214 VGDL--LIVKENEKI PADGLI SEALVDES 241

RESULT 10

ID ADS29356 standard; protein; 695 AA.
XX
AC ADS29356;
XX
DT 02-DEC-2004 (first entry)
XX
DE Bacterial polypeptide #18389.
XX
KW Recombinant DNA construct; transformed plant; improved plant property;
cold tolerance; heat tolerance; drought tolerance; herbicide; osmosis;
KW pathogen tolerance; pest tolerance; plant disease resistance;
cell cycle pathway modification; plant growth regulator; protein yield; carbohydrate;
KW homologous recombination; seed oil yield; protein yield; carbohydrate;
KW nitrogen; phosphorus; photosynthesis; lignin; galactomannan;
bacterial polypeptide.
XX
OS Bacteria.
XX
PN US2003233675-A1.
XX
PD 18-DEC-2003.
XX
PP 20-FEB-2003; 2003US-00369493.
XX
PR 21-FEB-2002; 2002US-0360039P.

XX
PA (CAOY/) CAO Y
PA (HINKL/) HINKLE G J.
PA (SLAT/) SLATER S C.
PA (CHEN/) CHEN X.
PA (GOLD/) GOLDMAN B S.
XX
PI Cao Y, Hinkle GJ, Slater SC, Chen X, Goldman BS;
XX
DR WPI; 2004-061375/06.
XX
PT New recombinant DNA construct comprising a promoter positioned to provide
PT for expression of a polynucleotide encoding a polypeptide from a
PT microbial source, useful for producing plants with improved properties.
XX
PS Claim 1; SEQ ID NO 18389; 122pp; English.
CC The invention relates to a recombinant DNA construct comprising a
CC promoter functional in a plant cell, where the promoter is positioned to

provide for expression of a polynucleotide encoding a polypeptide from a microbial source. The invention also relates to a transformed plant comprising the recombinant DNA construct and a method of producing a transformed plant having an improved property. The plant is a crop plant such as maize or soybean. The method of producing a transformed plant having an improved property comprises transforming a plant with the recombinant DNA construct and growing the transformed plant, where the polynucleotide or polypeptide is useful for improving plant properties. The recombinant DNA construct is useful for producing plants with improved plant properties, e.g. improved cold, heat or drought tolerance, tolerance to herbicides, extreme osmotic conditions, pathogens or pests, increased resistance to plant disease, better growth rate by modification of the cell cycle pathway with plant growth regulators, increased rate of homologous recombination, modified seed oil or protein yield and/or content, improved yield by modification of carbohydrate, nitrogen or phosphorus use and/or uptake, by modification of photosynthesis or by providing improved plant growth and development under at least one stress condition, improved lignin production or improved galactomannan production. This sequence represents a bacterial polypeptide used in the scope of the invention. Note: The sequence data for this patent did not form part of the printed specification but was obtained in electronic format from USPTO at seqdata.uspto.gov/sequence.html.

Sequence 695 AA;

Query Match	Best Local Similarity	Score	DB	Length
Matches	25.3%	92	8	695
AC	28			
CC	50			
CC	34			
CC	7			
OY	101	LGAIVVFSRVTNNVYLEAPFLVGLIEGSLKSTYNTLFCSCGIVGFLYHLYSTHALAALRG	Db	160
Db	101	LGTIIF-----FYSGTPFFSGARKELSKRPAAMMLITMGITWAV-AYSVVATMSLN	OY	153
OY	161	HFD-----CLSDRKVCYLUKTKATVNAE-MDI-----QNPVLSE-K	Db	195
Db	154	HMGRMNFWFELATLIVIMHLLEMKAIGMAGPAKDLIASLVRKKAHUKSGKDVLEBLK	OY	213
OY	196	IADLKEKVILTHNRLKSMLKISSEVTPOS	Db	225
Db	214	VGDL--LIVKENEKIPADGLLSELAVDES	OY	241

RESULT 11

AA008972
ID AA008972 standard; protein; 269 AA.

AC AA008972;
XX DT 06-NOV-2001 (first entry)

DB Human polypeptide SEQ ID NO 22864.
KW Human; cytokine; cell proliferation; cell differentiation; gene therapy; vaccine; peptide therapy; stem cell growth factor; haemopoiesis; tissue growth factor; immunomodulatory; cancer; leukaemia; nervous system disorders; arthritis; inflammation.

KW Homo sapiens.
OS Homo sapiens.
PN WO200164835-A2.

XX PD 07-SEP-2001.

XX PP 26-FEB-2001; 2001WO-US004927.

XX PR 28-FEB-2000; 2000US-00515126.

XX PR 18-MAY-2000; 2000US-00577409.

XX PA (HYSEQ-) HYSEQ INC.

XX Tang YT, Liu C, Dermanac RT;
XX DR WPI; 2001-514838/56.

DR N-PSDB; AAI88903.

XX PT isolated nucleic acids and polypeptides, useful for preventing diagnosing and treating e.g. leukemia, inflammation and immune disorders.

PT XX

PR XX

PR Claim 20; SEQ ID NO 22864; 1399pp + Sequence Listing; English.

CC XX

CC The invention relates to human polynucleotides (AAI79941-AAI93841) and the encoded proteins (AA00010-AA01310) that exhibit activity eluting to cytokine, cell proliferation or cell differentiation or which may induce production of other cytokines in other cell populations. The polynucleotides and polypeptides are useful in gene therapy, vaccines or peptide therapy. The polypeptides have various cytokine-like activities, e.g. stem cell growth factor activity, haemopoiesis regulating activity, tissue growth factor activity, immunomodulatory activity and antiinflamatory activity and may be useful in the diagnosis and/or treatment of cancer, leukaemia, nervous system disorders, arthritis and inflammation. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences

CC XX

CC Sequence 269 AA;

CC Sequence 695 AA;

Query Match 7.7%; Score 92; DB 8; Length 695;

Query Match	Best Local Similarity	Score	DB	Length
Matches	25.3%	92	8	695
AC	28			
CC	50			
CC	34			
CC	7			
OY	8	HRSRCATPQRGDFC----GGTERADQA----SFTISMEDIQVKGSSPL----	Db	50
Db	39	YRQQAOPPH---CPAPEGEPAQPAQDAPSNSVLSVTAQDVYCVLQGSHALCTCFQ	OY	95
OY	51	--GPAGLGAEEPAAGPOLPSWLQPERCAVFOCAQCHAVLAQDSVHLAWDLSR-----	Db	99
Db	96	PMDRRAEREQDPRAQ-----OCAVC--LQPFCHLWGTCTRGCGSCLA	OY	139
OY	100	-----SGAIVVFSRVTNNVYLEAPFLVGLIEGSLKSTY-NLFQGSGCIPVPHLYSTA	Db	153
Db	140	PFCEBLNGDCKLUDGVNLNNVSDEILKNYLAT-RGLTWNML-----TES	OY	183
OY	154	ALAALRGHRCLS---SDKMVYLUKTKATVNAE-SMDIONPULSE	Db	194
Db	184	LMALQRYFLLSDYRVGDTVYCCGURSERBLTYDQRNIPASE	OY	229

RESULT 12

ABM83354
ID ABM83354 standard; protein; 572 AA.

AC XX

XX ABM83354;

XX DT 18-NOV-2004 (first entry)

XX DE Human diagnostic and therapeutic pprotein SEQ ID NO:3603.

XX KW gene therapy; human diagnostic and therapeutic polynucleotide; dithp.

XX OS Homo sapiens.

XX PN WO2004023973-A2.

XX PD 25-MAR-2004.

XX PP 12-SEP-2003; 2003WO-US028227.

XX PR 12-SEP-2002; 2002US-0410259P.

PR 12-SEP-2002; 2002US-0410260P.

XX PA (INCY-) INCYTE CORP.

XX

PI Schmidt JP, Wright RJ, Bruns CM, Marianovic MM, Shen F, Elder LV;

PI Harthorne TA, Suchorski MT, Altus CM, Pitts SJ, Ruddy TP;

PI Mooney EM, Delageane AM, Panesar IS, Banville SC, Ruddy TP;

PI Stevens KA, Blanchard JL, Panzer SR, Wang X, Au AP, Gerstein EH;

PI Peralta CH, Anderson SB, Rioux P, Shen EJ, Wu MC, Stuve LL;
 PI Lagace RE, Spiro PA, Stewart EA, Wingrove J, Vitt UA, Kirton ES;
 PI Xu Y, Kwong M, Policky JM, Hurwitz BL, Ma Y, Jackson JL, Gietzen D;
 PI Patury S, Shi X, Suarez CJ, DR N-PSDB; ACN42006.

XX DR

PR N-PSDB; ACN42006.

New diagnostic and therapeutic polynucleotides and polypeptides, useful in diagnosing a condition, disease or disorder associated with human molecules, e.g. autoimmune or inflammatory disorders, in gene therapy or in gene mapping.

XX PS

PT Claim 27; Page: 190PP; English.

The invention relates to novel diagnostic and therapeutic polynucleotides selected from one of the 2722 sequences defined in the specification. A polynucleotide of the invention may have a use in gene therapy. The human diagnostic and therapeutic polynucleotides (dithp) or polypeptides may be used to diagnose a particular condition, disease or disorder associated with human molecules, e.g. cell proliferative disorders, autoimmune/inflammatory disorder, developmental disorder, endocrine disorder, neurological disorders, gastrointestinal disorders, or infections caused by virus, bacteria, fungi or parasite. The dithp molecules may also be used in genetic mapping, in identifying individuals from minute biological samples, in detecting single nucleotide polymorphisms, as molecular weight markers, and for somatic or germline gene therapy. The present sequence represents a dithp protein of the invention. Note: The sequence data for this patent is not represented in the printed specification, but was obtained in electronic format directly from WIPO at www.wipo.int/pct/en/sequences/listing.htm

XX SQ Sequence 572 AA;

Query Match Best Local Similarity 7.4%; Score 89; DB 8; Length 572; Matches 52; Conservative 26; Mismatches 74; Indels 74; Gaps 11;

Oy 8 HRSRCATPQRGDFC-----GGTERAIDQA----SFTTSMEMDTQVVKGSPL----- 50
 Db 342 YRROQAQPPH---CPAPEGEPAQDAPSDAPSIVSLTTAVQDVYCPQLQGSHALCTCCFQ 398
 Qy 51 ---GPAGLGAEEPAAGPQFSLWQPERCAVFOCAQCHAVLADSVHLDSL----- 99
 Db 399 PMPDRRAERBQDPRVAPQ-----QCAVC---LQPFCHLWNGCTRIGCYGLA 442
 Qy 100 -----SLGAVWFSRVTNNVLEAPFLVIGIEGSLKGSTY-NLFQGSCGIPNGPHLYSTA 153
 Db 443 PFCELNLGKCLDGVLANNNSYESDILKVNLYAT-RGLTWKML----- TES 486
 Qy 154 ALAALRGHFLS-----SDRMVCYLKTKAVINASEMDIQNPULSE 194
 Db 487 LVALQRGVFLSDYRVTVGTVLCYCGLRSFRELTQYQRONIPIASE 532

XX SQ Sequence 623 AA;

Query Match Best Local Similarity 7.4%; Score 89; DB 4; Length 623; Matches 52; Conservative 26; Mismatches 74; Indels 74; Gaps 11;

Qy 8 HRSRCATPQRGDFC-----GGTERAIDQA----SFTTSMEMDTQVVKGSPL----- 50
 Db 393 YRROQAQPPH---CPAPEGEPAQDAPSDAPSIVSLTTAVQDVYCPQLQGSHALCTCCFQ 449
 Qy 51 ---GPAGLGAEEPAAGPQFSLWQPERCAVFOCAQCHAVLADSVHLDSL----- 99
 Db 450 PMPDRRAERBQDPRVAPQ-----QCAVC---LQPFCHLWNGCTRIGCYGLA 493
 Qy 100 -----SLGAVWFSRVTNNVLEAPFLVIGIEGSLKGSTY-NLFQGSCGIPNGPHLYSTA 153
 Db 494 PFCELNLGKCLDGVLANNNSYESDILKVNLYAT-RGLTWKML----- TES 537
 Qy 154 ALAALRGHFLS-----SDRMVCYLKTKAVINASEMDIQNPULSE 194
 Db 538 LVALQRGVFLSDYRVTVGTVLCYCGLRSFRELTQYQRONIPIASE 583

RESULT 13
 AAB93182 ID AAB93182 standard; protein; 623 AA.
 AC AAB93182:
 XX DT 26-JUN-2001 (first entry)
 XX Human protein sequence SEQ ID NO:12128.
 KW Human; primer; detection; diagnosis; antisense therapy; gene therapy.
 XX OS Homo sapiens.
 XX PN EP1074617-A2.
 XX PD 07-FEB-2001.

RESULT 14
 ABB97233 ID ABB97233 standard; protein; 623 AA.
 AC ABB97233:

XX
 XX DT 26-JUN-2001 (first entry)
 XX DE Human protein sequence SEQ ID NO:12100.
 XX KW Human; primer; detection; diagnosis; antisense therapy; gene therapy.
 KW Human; antianaemic; vulnerability; antiinflammatory; immunomodulator;
 KW antiinfertility; cerebroprotective; cytostatic; rheumatic; gene therapy;
 KW neuroprotective; antiparkinsonian; protein therapy; EST;
 KW expressed sequence tag.
 XX OS Homo sapiens.
 XX PN WO200222660-A2.
 XX PR 21-MAR-2002.
 XX PR 10-SEP-2001; 2001WO-US026015.
 XX PR 11-SEP-2000; 2000US-00659671.
 XX PR 07-FEB-2001.
 XX PR 28-JUL-2000; 2000BP-00116126.
 XX PR 29-JUL-1999; 99JP-00248036.
 PR 11-JAN-2000; 2000JP-00118776.
 PR 02-MAY-2000; 2000JP-00183167.
 PR 09-JUN-2000; 2000JP-00241699.
 XX PA (NYSE-) NYSEQ INC.
 XX PI Tang YT, Liu C, Zhou P, Asundi V, Zhang J, Zhao QA, Ren F;
 PI Xie AJ, Yang Y, Weberman T, Demanac RT;
 DR N-FSDB; ABN32419.
 XX PT An isolated polynucleotide for treating diseases associated with its
 PT encoded polypeptide such as cancer and multiple sclerosis.
 XX PS Example 2; SEQ ID NO 501; 509pp; English.
 XX CC The present invention provides the protein and coding sequences of 444
 CC novel human proteins. These were isolated from expressed sequences tags
 CC (ESTs). They can be used to stimulate cell growth, to regulate
 CC haemopoiesis e.g. to treat aplastic anaemia, to help tissue regrowth
 CC e.g. in burn treatment, to regulate the immune system e.g. to treat
 CC multiple sclerosis, to regulate activin or inhibin e.g. to treat
 CC infertility, to regulate haemostasis or thrombolytic e.g. to treat stroke
 CC and cancer, to screen for drugs, to treat inflammatory conditions e.g.
 CC rheumatoid arthritis, and to treat nervous system disorders e.g.
 CC Parkinson's disease. The present sequence is a protein of the invention
 XX SQ Sequence 623 AA:
 Query Match 7.4%; Score 89; DB 5; Length 623;
 Best Local Similarity 23.0%; Pred. No. 2.9;
 Matches 52; Conservative 26; Mismatches 74; Indels 74; Gaps 11;
 QY 8 HRSRCATPRGDFC-----GTERADQDA----SFTTSMEDWTQVKGSSPL----- 50
 DB 393 YRQQAAQDPH---CPAPBGPAGPAQALGDAPPSTSVLTTAVQDYVCPLQGHALCTCCFQ 449
 QY 51 --GPGIGAEEPAGQLPSWLQPERCAVFOCAQCHAVALDSVHLWDLSR----- 99
 DB 450 PMPDRRAERQPRAVQ-----OCAVC--LQPFCHLWGCTRTGCGCL 493
 QY 100 -----SLGAVVFSRVNVVLEAPFLVGIEGSLKGSTY-NLIFCGSGCIPVGPHLYSTA 153
 DB 494 PFCELNLDDKCLGVLNNYSEDIKRYIAT-RGLITKML-----TES 537
 QY 154 ALAALRGHPCLS-----SDKMVCYLKTKRATIVASEMDIONVPLSE 194
 DB 538 LVALQRGVPLSLDVRVGTDTVLICCGILRSFRELTYQVQQNIPASE 583
 QY 100 -----SLGAVVFSRVNVVLEAPFLVGIEGSLKGSTY-NLIFCGSGCIPVGPHLYSTA 153
 Query Match 7.4%; Score 89; DB 4; Length 652;
 Best Local Similarity 23.0%; Pred. No. 3.1;
 Matches 52; Conservative 26; Mismatches 74; Indels 74; Gaps 11;
 QY 8 HRSRCATPRGDFC-----GTERADQDA----SFTTSMEDWTQVKGSSPL----- 50
 DB 422 YRQQAAQDPH---CPAPBGPAGPAQALGDAPPSTSVLTTAVQDYVCPLQGHALCTCCFQ 478
 QY 51 --GPGIGAEEPAGQLPSWLQPERCAVFOCAQCHAVALDSVHLWDLSR----- 99
 DB 479 PMPDRRAERQPRAVQ-----OCAVC--LQPFCHLWGCTRTGCGCL 522
 QY 100 -----SLGAVVFSRVNVVLEAPFLVGIEGSLKGSTY-NLIFCGSGCIPVGPHLYSTA 153
 RESULT 15
 AAB93168
 ID AAB93168 standard; protein; 652 AA.
 XX AC AAB93168;
 XX

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Page 10

523 PFCELNLGDKCLDGVLANNMSYESDILKNYLAT-RGLTWKML-----TES 5666

Qy 154 ALAALRGHFCLS-----SDKMWCVYLKTKAIWNASEMDIONVPLSE 194
 :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
 Db 567 LVALQRGWFLSYYRVTGTVLCYCGGLASFRELTYYQYRQNIPASE 612

Search completed: May 18, 2006, 15:35:47
Job time : 197 secs

A;Residues: 1-1597 <COL>
 A;Cross-references: UNIPROT:O83693; UNIPARC:UPI00000D3290; GB:AE001243; GB:AE000520; NID:51
 A;Experimental source: strain Nichols
 C;Genetics:
 A;Gene: TP0695

Query Match 7.6%; Score 90.5; DB 2; Length 597;
 Best Local Similarity 28.0%; Pred. No. 2.2; Mismatches 51; Conservative 19; Indels 65; Gaps 12; Matches 51;

Qy 12 CATPPRGPCGGTERAID---QSFT-----TSMEDPTQVKGSSSPGPA 53
 Db 90 CALP--GHRLEATKATDKTRMRACFTRARLRCRPTFLEPDSPAWDT----PPGHA 140

Qy 54 GLGAAEPAGPQLPSWLQ---ERCAVFOC---AQCHAVLDSVHAWDLRSLSLGAVWFSRV 110
 Db 141 RLCSHLHSAGLSFLPLVKPDTNDMARGCTLAQCKDTLNACAVARQFSRS----- 190

Qy 111 NNVVLEAPPLVGRLGSLKGSTYNILFCGSGCGIPVGPHLYSTHALAALRGHFCLSSDKMV 170
 Db 191 GRVIE-EPIVGREFSLEG---LIFDGT-----LVVT---ALA-----DRHI 225

Qy 171 CY 172
 Db 226 CF 227

RESULT 3
 Query Match 7.4%; Score 89; DB 2; Length 306;
 Best Local Similarity 23.0%; Pred. No. 1.3; Mismatches 52; Conservative 26; Indels 74; Gaps 11; Matches 52;

C;Species: Homo sapiens (man)
 C;Date: 04-Feb-2000 #sequence_revision 04-Feb-2000 #text_change 09-Jul-2004
 C;Accession: T46399
 R;Ottewelder, B.; Obermaier, B.; Mewes, H.W.; Gassenhuber, J.; Wiemann, S.
 submitted to the Protein Sequence Database, January 2000
 A;Reference number: Z23031
 A;Accession: T46399
 A;Status: preliminary
 A;Molecule type: mRNA
 A;Cross-references: UNIPROT:Q96EP1; UNIPARC:UPI000006D779; EMBL:AL137561
 A;Experimental source: adult testis; clone DKFZ434N2420
 C;Genetics:
 A;Note: DKFZ434N2420.1

Query Match 7.4%; Score 89; DB 2; Length 306;
 Best Local Similarity 23.0%; Pred. No. 1.3; Mismatches 52; Conservative 26; Indels 74; Gaps 11; Matches 52;

Qy 8 HRSRCATPPRGDFC-----GGTERAIDQ---SFTSMEMDTQVVKGSSPQ----- 50
 Db 76 YRRQAQOPHH---CPAPEGPGQAPQALGPAPSPSVLTTAVDQYVCPLQGHALCTCCFQ 132

Qy 51 ---GPAGLGLKEPAGPQLPSWLQPERCAVFOCQCHAVIDSVHLADSVHLISR----- 99
 Db 133 PMPDRAEREQDPVAPQ-----QCAVC---IQPFCHLWGCRTGCGYCLIA 176

Qy 100 -----SLGAVVFSRVTNNVLEAPPLVGIGEBSLKGSTY-NLLFGCGSCGIPVGPHLYSTA 153
 Db 177 PFCELNLGDKCCLDGTVLNNNSYESDITKVNLT-GLTWNML-----TES 220

Qy 154 ALAALRGHFCLS----SDKGVCVLKLTKRAIVNASEMIDQNVPLSE 194
 -Db 221 LVALQRGVFLSDPVRVGTPLCYCGGIRSFRELYQYRNQIASE 266

RESULT 5
 A;Accession: A97229
 A;Status: preliminary
 A;Molecule type: DNA
 A;Cross-references: UNIPROT:Q9YF05; UNIPARC:UPI00000CA5D7; GB:AE001437; PIDN:AAK00620.1,
 A;Experimental source: Clostridium acetobutylicum ATCC824
 C;Genetics:
 A;Gene: CAC2673
 C;Superfamily: DNA ligase (NAD), LigA type

Query Match 7.2%; Score 86.5; DB 2; Length 669;
 Best Local Similarity 27.4%; Pred. No. 6.2; Mismatches 37; Conservative 22; Indels 31; Gaps 8; Matches 37;

Qy 96 DLQR-----SLGAVVFSRVTNNVLEAPPLVGIGEBSLKGSTYNNL-----LFCCSGCGIPVG 146
 Db 366 DIGRKVKIGSRVFRNDVI---PEIMGVBTETEGTNEIAAPTICPYCGSEBIVKGV 422

Qy 147 HLYSTHALAALRGHFCLSSDKMVCLYLIKTKATVNASEMIDQNVPLSEKIAE-LKSKIV 204
 Db 423 HL-----FC---ENTUSCKPQMVKSIVHESREAMNIEGSEKTAOBFLK-- 465

Qy 205 LTHNRKLSMKLSE 219
 Db 466 LNIKSIISDLXRIKE 480

RESULT 6
 A;Accession: JQ1977
 A;Title: Nucleotide sequence of a novel kanamycin resistance gene, aphaA-7, from Campylobacter jejuni -kanamycin kinase (BC 2.7.1.95) - Campylobacter jejuni
 C;Species: Campylobacter jejuni
 C;Date: 11-Feb-1993 #sequence_revision 11-Feb-1993 #text_change 31-Dec-2004
 C;Accession: A43623
 R;Tenover, F.C.; Gilbert, T.; O'Hara, P.

A;Residues: 1-52-59, 189
 A;Title: Nucleotide sequence of a novel kanamycin resistance gene, aphaA-7, from Campylobacter jejuni -kanamycin kinase
 A;Reference number: A43623; MUID:89387451; PMID:2550983
 A;Accession: A43623
 A;Status: preliminary
 A;Molecule type: DNA
 A;Residues: 1-250 <TEN>
 A;Cross-references: UNIPROT:P14508; UNIPARC:UPI00012DEBC; GB:M2953; GB:J03316; NID:914
 C;Superfamily: aminoglycoside 3'-phosphotransferase (kanamycin kinase)
 C;Keywords: phosphotransferase

Query Match 7.3%; Score 88; DB 2; Length 250;
 Best Local Similarity 28.7%; Pred. No. 1.3; Mismatches 46; Indels 18; Gaps 5; Matches 33;

Qy 105 VPSRVTNNVLEAPPLVGIGEBSLKGSTYNNLFGSCGIPVGPHLYSTHALAALRGHFCLSSDKMV 163
 Db 40 IFEKTYVSKRABMMWLSLSDKLUKVPH-----IEYGRHEHSYLINELRGHID 90

Qy 164 LSSDKMVVYLKTKAINA---SEMDIQNVPLSEKI-AELKEKIVNTHNRLKSL 213
 Db 91 CFIDHPKVI---ECUVMALHQDIDRNCFPSSKIDVRLKELKYLNDRADI 142

RESULT 8

RESULT 10

A85433 sugar transporter like protein [imported] - *Arabidopsis thaliana* (mouse-ear cress)
C;Species: *Arabidopsis thaliana* (mouse-ear cress)
C;Accession: A85433
R;anonymous: The European Union *Arabidopsis* Genome Sequencing Consortium, The Cold Spring Nature 402, 769-777, 1999
A;Title: Sequence and analysis of chromosome 4 of the plant *Arabidopsis thaliana*.
A;Reference number: A85001; MUID:20083488; PMID:10617198
A;Accession: A85433
A;Status: preliminary
A;Molecule type: DNA
A;Residue: 1-493 <STO>
A;Cross-references: UNIPROT:O23213; UNIPARC:UPI000009F22F; GB:NC_001268; NID:97270615; F
C;Genetics:
A;Gene: ATG43670
A;Map position: 4
C;Superfamily: glucose transport protein

Query Match 6.9%; Score 82.5; DB 2; Length 493;
 Best Local Similarity 24.9%; Pred. No. 10; Mismatches 59; Indels 69; Gaps 13;
 Matches 53; Conservative 32; MisMatches 59; Indels 69; Gaps 13;

```

QY    79 QCMQCHAVALDLSVLAWSRSRSLGAVVF--SRVTNNVVLLEAPFLVGLT----EGSIK- 128
Db    19 QCAVAVASIV--SIRFGYDVGVMGAMNFIEDLKNDVQEVE-LTGILNLCAVGSIA 74
QY    129 -----GSTVNLLFGSCC-GIPVGFHL-----VSTH 152
Db    75 GRTSIDLIGRTYITVLASILMFLGSGPQNPYVPLSGRCTAGLVGFALMVAPVVAE 134
QY    153 AALAALRG---HPCLSSDKMVCYLLK--TKAIVWAS--EMDIONVP--LSEKIA 197
Db    135 IATASHRGGLASLPHLCISGILGYIYVFFSKLPMILGWRLMLGIAVAPSILVARGIL 194
QY    198 ELKE--KIVVTHNRKLKSLMKILSEV--TPDQSK 226
Db    195 KMPSPRMLIMQGRILKEGEKILEVLSNSPEEAE 227

```

RESULT 11

F87678 DNA polymerase I [imported] - *Caulobacter crescentus*
C;Species: *Caulobacter crescentus*
C;Accession: F87678
C;Date: 20-Apr-2001 #sequence_revision 20-Apr-2001 #text_change 09-Jul-2004

R.Nierman, W.C.; Feldblyum, T.V.; Paulsen, I.T.; Nelson, K.E.; Eisen, J.; Heidelberg, J.; B.; Laub, M.T.; DeBoy, R.T.; Dodson, R.J.; Durkin, A.S.; Gwinn, M.L.; Haft, D.H.; Kolon, N.; J.; Ermolaeva, M.; White, O.; Salzberg, S.L.; Shapiro, L.; Venter, J.C.; Fraser, C.M.; proc. Natl. Acad. Sci. U.S.A., 98, 4136-4141, 2001
A;Title: Complete Genome Sequence of *Caulobacter crescentus*.
A;Reference number: A87249; MUID:22173698; PMID:11295647
A;Accession: F87678
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-967 <STO>
A;Cross-references: UNIPROT:O9A2U2; UNIPARC:UPI00000C7A81; GB:AE005673; NID:913425184; F
C;Genetics:
A;Gene: CC3464
C;Superfamily: DNA-directed DNA polymerase I

Query Match 6.8%; Score 82; DB 2; Length 967;
 Best Local Similarity 24.1%; Pred. No. 26; Mismatches 51; Conservative 27; MisMatches 72; Indels 62; Gaps 11;

RESULT 12

D90404 transport protein, probable [imported] - *Sulfolobus solfataricus*
C;Species: *Sulfolobus solfataricus*
C;Date: 24-May-2001 #sequence_revision 24-May-2001 #text_change 09-Jul-2004
C;Accession: D90404
R;O: Singh, O.; Singh, R.K.; Confolanieri, F.; Zivanovic, Y.; Allard, G.; Awayez, M.J.; Channong, I.; Jeffries, A.C.; Koza, C.J.; Medina, N.; Peng, X.; Thi-Ngoc, H.P.; Redder, F.; Chan-arrett, R.A.; Regan, M.A.; Seneca, C.W.; Van der Oost, J.
A;Submitted to: Genbank, April 2001
A;Description: *Sulfolobus solfataricus* complete genome.
A;Reference number: A89139
A;Accession: D90404
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-329 <KOR>
A;Cross-references: UNIPROT:Q97W97; UNIPARC:UPI0000646FA; GB:AE006641; NID:91815639; F
C;Genetics:
A;Gene: SS02338

Query Match 6.8%; Score 81.5; DB 2; Length 329;
 Best Local Similarity 22.2%; Pred. No. 7; Mismatches 40; Conservative 30; MisMatches 47; Indels 63; Gaps 7;

```

QY    87 LADSVHUA-WD-----LRSLSGAWSFSRVTNNVV-----LE 116
Db    33 LSSEMMHLAYWEVFAIVALPPLGRIGIIGFYQPKNSISYCPRFLGVLQNLGALIF 92
QY    117 APFLVG-----TGSLSKGSTYNVNLFCGSGCGTIGVGFHLYSTHALAALRGHFCISSL 166
Db    93 VRFLVGVFGLLTSIYAVESAVASGRASGRNLVGFITAGWDIGWV----- 134

```

RESULT 13

H85767 glucuronide permease [imported] - *Escherichia coli* (strain O157:H7, substrain EDL933)
C;Species: *Escherichia coli*
C;Date: 16-Feb-2001 #sequence_revision 16-Feb-2001 #text_change 09-Jul-2004
C;Accession: H85767

R.Perna, N.T.; Blunkett, III, G.; Burland, V.; Mau, B.; Glasner, J.D.; Rose, D.J.; Mayhew, L.; Grotbeck, E.J.; Davis, N.W.; Ljm, A.; Damalanta, B.; Potamitis, K.; Apodaca, Nature 409, 529-533, 2001
A;Title: Genome sequence of enterohemorrhagic *Escherichia coli* O157:H7.
A;Reference number: A85480; MUID:21074935; PMID:11206551
A;Accession: H85767
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-457 <STO>
A;Cross-references: UNIPROT:Q8X673; UNIPARC:UPI0000D0B0E5; GB:AE005174; NID:912515601; F
C;Experimental source: strain O157:H7, substrain EDL933
C;Genetics:
A;Gene: uidB

C;Superfamily: melibiose carrier protein

Query Match 6.8%; Score 81.5; DB 2; Length 457;

Best Local Similarity 25.2%; Pred. No. 11; Mismatches 37; Conservative 30; Mismatches 53; Indels 27; Gaps 8;

Matches 37; Mismatches 53; Indels 27; Gaps 8;

Qy 95 WDLRSIGAVFSRVTNNV-----VLEA-----PELVGIESLKGSTYNNLL-FCSSCG 141
Db 317 WSLPVALVALIASIGQGVMTVMWALEADTVYGEVLGVR--IEGLTYSLSFTRKCG 374

Qy 142 IPVGFHLYSTHAALALRGHFC--LSSDKMVCYLKTKAIVNASEMDIONV----PLSE 194
Db 375 QAIG--GSIPAFILGSGYIANQVOTPEVIMGRTSIALVPCGFMILLAFVIIWFYPLTD 431

Qy 195 KIAELKEKVLTNRLKSIMKILSEVT 221
Db 432 K--KFKEIVWEIDNRKKVQQQLISDIT 456

RESULT 14

Q90919 glucuronide permease [imported] - Escherichia coli (strain O157:H7, substrain RIMD 05099

C;Species: Escherichia coli

C;Date: 18-Jul-2001 #sequence_change 09-Jul-2004

C;Accession: C90919

R;Hayashi, T.; Makino, K.; Ohnishi, M.; Kurokawa, K.; Ishii, K.; Yokoyama, K.; Han, C.G.

gasawara, N.; Yasunaga, T.; Kuhara, S.; Shiba, T.; Hattori, M.; Shinagawa, H.

DNA Res 8 11-22, 2001

A;Title: Complete genome sequence of enterohemorrhagic Escherichia coli O157:H7 and gene

A;Reference number: A99629; PMID:21156231; PMID:11258796

A;Accession: C90919

A;Cross-references: UNIPROT:Q8X673; UNIPARC:UPI00000D0BES5; GB:BA000007; PIDN:BAB35746.1;

A;Experimental source: strain O157:H7, substrain RIMD 0509952

C;Genetics:

A;Gene: ECg323

C;Superfamily: melibiose carrier protein

Query Match 6.8%; Score 81.5; DB 2; Length 457;

Best Local Similarity 25.2%; Pred. No. 11; Mismatches 37; Conservative 30; Mismatches 53; Indels 27; Gaps 8;

Matches 37; Mismatches 53; Indels 27; Gaps 8;

Qy 95 WDLRSIGAVFSRVTNNV-----VLEA-----PELVGIESLKGSTYNNLL-FCSSCG 141
Db 317 WSLPVALVALIASIGQGVMTVMWALEADTVYGEVLGVR--IEGLTYSLSFTRKCG 374

Qy 142 IPVGFHLYSTHAALALRGHFC--LSSDKMVCYLKTKAIVNASEMDIONV----PLSE 194
Db 375 QAIG--GSIPAFILGSGYIANQVOTPEVIMGRTSIALVPCGFMILLAFVIIWFYPLTD 431

Qy 195 KIAELKEKVLTNRLKSIMKILSEVT 221
Db 432 K--KFKEIVWEIDNRKKVQQQLISDIT 456

RESULT 15

B64918 Glucuronide permease uidB - Escherichia coli (strain K-12)

C;Species: Escherichia coli

C;Date: 12-Sep-1997 #sequence_revision 17-Sep-1997 #text_change 09-Jul-2004

C;Accession: B64918

R;Blattner, F.R.; Plunkett III, G.; Bloch, C.A.; Perna, N.T.; Burland, V.; Riley, M.; Cole, J.; Rosse, D.J.; Maurer, B.; Shao, Y.

Science 277, 1455-1462, 1997

A;Title: The complete genome sequence of Escherichia coli K-12.

A;Reference number: A64920; PMID:97426617; PMID:9278503

A;Status: nucleic acid sequence not shown; translation not shown

A;Molecule type: DNA

A;Residues: 1-457 <BLAT>

A;Cross-references: UNIPROT:P30868; UNIPARC:UPI0000137B23; GB:AE000257; GB:U00096; NIDM:9

A;Experimental source: strain K-12, substrain MG1655

C;Genetics:

A;Gene: uidB; gusB

C;Superfamily: melibiose carrier protein

C;Keywords: carrier protein; transmembrane protein

F;81-97/Domain: transmembrane #status predicted <TM02>

F;152-168/Domain: transmembrane #status predicted <TM03>

F;184-217/Domain: transmembrane #status predicted <TM04>

F;231-247/Domain: transmembrane #status predicted <TM05>

F;263-279/Domain: transmembrane #status predicted <TM06>

F;310-326/Domain: transmembrane #status predicted <TM07>

F;408-424/Domain: transmembrane #status predicted <TM08>

Query Match 6.8%; Score 81.5; DB 2; Length 457;

Best Local Similarity 25.2%; Pred. No. 11; Mismatches 53; Indels 27; Gaps 8;

Matches 37; Conservative 30; Mismatches 53; Indels 27; Gaps 8;

Qy 95 WDLRSIGAVFSRVTNNV-----VLEA-----PELVGIESLKGSTYNNLL-FCSSCG 141
Db 317 WSLPVALVALIASIGQGVMTVMWALEADTVYGEVLGVR--IEGLTYSLSFTRKCG 374

Qy 142 IPVGFHLYSTHAALALRGHFC--LSSDKMVCYLKTKAIVNASEMDIONV----PLSE 194
Db 375 QAIG--GSIPAFILGSGYIANQVOTPEVIMGRTSIALVPCGFMILLAFVIIWFYPLTD 431

Qy 195 KIAELKEKVLTNRLKSIMKILSEVT 221
Db 432 K--KFKEIVWEIDNRKKVQQQLISDIT 456

Search completed: May 18, 2006, 15:41:35
Job time : 40 secs

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GenCore version 5.1.8
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.OM protein - protein search, using SW model

Run on: May 18, 2006, 15:33:31 ; Search time 299 Seconds
(without alignments)
708.457 Million cell updates/sec

Title: US-09-942-052a-728

Perfect score: 1198
Sequence: 1 MAQPLRHRHRSRCATPPRGDF..... LKSLMKILSEVTPDQSKPEN 229

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2849598 seqs, 925015592 residues

Total number of hits satisfying chosen parameters: 2849598
Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : UniProt 7.2:
1: uniprot_sprot:
2: uniprot_trembl:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	1198	100.0	229	1 OIP5_HUMAN
2	122	10.2	218	2 Q9CXR6_MOUSE
3	118	9.8	462	2 Q9APB5_USTMA
4	115.5	9.6	204	2 Q9CZG6_MOUSE
5	113	9.4	233	1 Q0045_HUMAN
6	113	9.4	233	2 Q542Z0_HUMAN
7	110.5	9.2	232	1 CT045_PANTR
8	109	9.1	702	2 Q5BBL1_BRARAE
9	107	8.9	532	2 Q5AII6_DICDI
10	105	8.8	155	1 YCZC_SCHPO
11	96	8.0	391	2 Q3RBQ5_ORYZA
12	96	8.0	497	2 Q3VQJ4_MOUSE
13	94	7.8	1556	2 Q4Q26_LIMMA
14	93.5	7.8	702	2 Q2QSG3_ORYSA
15	92	7.7	361	2 Q8S111_ORYSA
16	92	7.7	695	2 Q9CH87_LACLA
17	91.5	7.6	410	2 Q2JZT7_RHIZO
18	91	7.6	628	2 Q69KE0_ORYSA
19	90.5	7.6	272	2 Q4Q0J4_DESCA
20	90.5	7.6	597	2 Q83G93_TREPA
21	89.5	7.5	502	2 Q50BD2_ENTHI
22	89.5	7.5	661	2 Q50V43_ENTHI
23	89.5	7.5	661	2 Q50WZ8_ENTHI
24	89.5	7.5	2034	2 Q4EB56_TRYC
25	89	7.4	633	2 Q5M052_STRT1
26	89	7.4	664	1 CHFPR_HUMAN
27	89	7.4	2 Q5MAR3_STRT2	
28	89	7.4	893	1 POL2_BAMVA
29	88.5	7.4	152	2 Q5OKW7_ENTHI
30	88.5	7.4	384	2 Q3AW4_PELCD
31	88.5	7.4	2 Q75RZ6_CIOIN	

ALIGNMENTS				
RESULT 1	OIP5_HUMAN	ID OIP5_HUMAN STANDARD;	PRT; 229 AA.	
RX	Q9CXR6_MOUSE	AC Q03482; Q96BX7;	DT 03-APR-2002, sequence version 2.	RT integrated into UniProtKB/Swiss-Prot.
RX	Q9APB5_USTMA	DT 07-FEB-2006, entry version 29.	DE Opa-interacting protein 5.	GN
RA	Q9CZG6_MOUSE	RA Name=OIPS;	OS Homo sapiens (Human).	OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominoidea; Homo.
RN	Q542Z0_HUMAN	RN NCBI - TaxID=9606;	OX	RN
RX	CT045_PANTR	RX NUCLEOTIDE SEQUENCE [mRNA].	RP	RX
RA	Q5BBL1_BRARAE	RA Williams J.M., Chen G.-C., Zhu L., Rest R.F.; "Using the yeast two-hybrid system to identify human epithelial cell proteins that bind gonococcal Opa proteins: intracellular gonococci bind pyruvate kinase via their Opa proteins and require host pyruvate for growth.", Mol. Microbiol. 27:171-186 (1998).	RT	RT
RN	Q2QSG3_ORYSA	RN [2] NUCLEOTIDE SEQUENCE [LARGE SCALE mRNA].	RP	RN
RA	Q8S111_ORYSA	RA TISSUE-Uterus;	RT	RT
RA	Q9CH87_LACLA	RA MEDLINE=2288257; PubMed=12477932; DOI=10.1073/pnas.242603899; Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G., Klausner R.D., Collins F.S., Wagner L., Shennan C.M., Schuler G.D., Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., Hopkins R.F., Jordan H., Moore T.J., Max S.I., Wang J.J., Hsieh F., Diatchenko L., Marusina K., Farmer A.R., Rubin G.M., Hong L., Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E., Brownstein M.J., Usdin T.B., Yoshiyuki S., Carninci P., Prange C., RA Brownstein M.J., Usdin T.B., Yoshiyuki S., Carninci P., Prange C., RA Bosak S.A., Loquallano N.A., Peters G.J., Abramson R.D., Mulahay S.J., RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., RA Villalon D.K., Munzy D.M., Sodergren E.J., Lu X., Gibbs R.A., RA Fahey J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A., RA Whiting M., Maddan A., Young A.C., Stevchenko Y., Bouffard G.G., RA Blakesley R.W., Touchman J.W., Green D.B., Dickson M.C., Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smilus D.E., RA Schnecko A., Schein J.B., Jones S.J.M., Marras M.A., RA RT "Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences.", Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).	RT	RT
RA	Q4EB56_TRYC	RA -I- SUBUNIT: Binds outer membrane protein OpaP from Neisseria gonorrhoeae.	RL	CC
RA	Q5M052_STRT1	RA -I- INTERACTION: P14049-RAFI; NbExp=3; IntAct=EBI-536879, EBI-365996;	CC	CC
RA	Q66EP1_HUMAN	RA Copyrighted by the UniProt Consortium, See http://www.uniprot.org/terms	CC	Distributed under the Creative Commons Attribution-NoDerivs License

CC
DR EMBL; AF05441; AAC19561_1; ALT_INIT; mRNA.
DR EMBL; BC05050; AAH15050_0.1; -; mRNA.
DR IntAct; O13482; -.
DR Ensemble; ENSG00000104147; Homo sapiens.
DR H-INVDB; HXK012150; -.
DR HGNC; HGNC:20300; OIP5.
DR MIM; 606020; gene.
DR LinkHub; OX3482; -.
DR GO; GO:003515; P:protein binding; TAS.
DR GO; GO:007154; P:cell communication; NAS.
FT CHAIN 1 229 Oxa-interacting protein 5.
SQ SEQUENCE 229 AA; 24691 MW; 0EBD406193A3106 CRC64;

Query Match 100.0%; Score 1198; DB 1; length 229;
Best Local Similarity 100.0%; Pred. No. 1. 3e-104; Mismatches 0; Indels 0; Gaps 0;
Matches 229; Conservative 0; Pmiss 0; Sse3 L., Sheng Y.,
QY 1 MAQAPLRRSRCATPPRDPCCGTERADQASFTMENWDTQVKGSSPLGGAGLAEPP 60
Db 1 MAQAPLRRSRCATPPRDPCCGTERADQASFTMENWDTQVKGSSPLGGAGLAEPP 60
QY 61 AAGPQLSWLQPERCAVQCACHAVIDSVHLAWDLSRSLGAVFSPRTNNVLEAPFL 120
61 AAGPQLSWLQPERCAVQCACHAVIDSVHLAWDLSRSLGAVFSPRTNNVLEAPFL 120
QY 121 VGETGSLKKGSTWLLFCGSCGTPVGPHLYSTHALAALRGHCLLSDKOMCVLKTAIV 180
Db 121 VGETGSLKKGSTWLLFCGSCGTPVGPHLYSTHALAALRGHCLLSDKOMCVLKTAIV 180
QY 181 NASEMDIONVPSEKIALEKIVLTHNRLKSLMKILSEVTPOQSKPEN 229
Db 181 NASEMDIONVPSEKIALEKIVLTHNRLKSLMKILSEVTPOQSKPEN 229

RESULT 2

O9CXR6 MOUSE PRELIMINARY; PRT; 218 AA.
ID O9CXR6_MOUSE PRELIMINARY; PRT; 218 AA.
AC O9CXR6; UniProtKB/TREMBL.
DT 01-JUN-2001, integrated into UniProtKB/TREMBL.
DT 01-JUN-2001, sequence version 1.
DT 07-FEB-2006, entry version 18.
DE 13 days embryo head cDNA, RIKEN full-length enriched library,
clone:311_0025H23 product:hypothetical protein, full insert sequence.
GN Name=261003C10Rik;
OS Mus musculus (Mouse);
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Eutheria; Earchontogires; Glires; Rodentia; Sciurognathi;
Muroidea; Muridae; Murinae; Mus.
[1] NCBI_TAXID=1090;

NUCLEOTIDE SEQUENCE.

STRAIN=C57BL/6J TISSUE=Head; PubMed=16141073; DOI=10.1126/science.1112009;
RIKEN Genome Exploration Research Group, and Genome Science Group
("Genome Network Core Team" and the FANTOM Consortium);
"Antisense Transcription in the Mammalian Transcriptome.";
Science 309:1564-1566(2005).

RN [4]

RP NUCLEOTIDE SEQUENCE.

STRAIN=C57BL/6J; TISSUE=Head; PubMed=12466651; DOI=10.1038/nature01266;
RX MEDLINE=22354683; PubMed=12466651; DOI=10.1038/nature01266;
RA Okazaki I., Furuno M., Kausawa T., Adachi J., Bono H., Kondo S.,
RA Niakido I., Osato N., Saito R., Suzuki H., Yamamoto T., Kiyosawa H.,
RA Yagi K., Tomaru Y., Basegawa Y., Nogami A., Schonbach C., Gojobori T.,
RA Baldarelli R., Hill D.P., Bult C., Rumm D.A., Quackenbush J.,
RA Schriml L.M., Kanapin A., Matsuda H., Batyalov S., Beisel K.W.,
RA Blake J.A., Bradt D., Brusic V., Chothia C., Corbani L.B., Cousins S.,
RA Dalla E., Dragani T.A., Fletcher C.P., Forres A., Frazer K.S.,
RA Gaestel T., Garibaldi M., Gissi C., Godzik A., Gough J.,
RA Grimmond S., Gustincich S., Hirokawa N., Jackson T.J., Jarvis E.D.,
RA Kanai A., Kawaji H., Kawahara Y., Kodzierski R.M., King B.L.,
RA Konagaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,
RA Maglott D.R., Maltas L., Marchionni L., McKenzie L., Miki H.,
RA Nagashima T., Numata K., Okido T., Pavani W.J., Perez G., Pease G.,
RA Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramachandran S.,
RA Rasaki T., Reed J.C., Reed D.J., Reid J., Ring B.Z., Ringwald M.,
RA Sandelin A., Schneider C., Semple C.A., Setou M., Shimada K.,
RA Sultana R., Takenaka Y., Taylor M.S., Teasdale R.D., Tonita M.,
RA Verardo R., Wagner L., Wahlestedt C., Wang Y., Watanabe Y., Weile C.,
RA Wilming L.G., Wymshaw-Boris A., Yangisawa M., Yang I., Yang L.,
RA Yuan Z., Zavolan M., Zhu Y., Zimmer A., Carninci P., Hayatsu N.,
RA Hirozane-Kishizawa T., Kanno H., Nakamura M., Sakazume N., Sato K.,
RA Shiraki T., Waki K., Kawaji H., Aizawa K., Arakawa T., Fukuda S.,
RA Hara A., Hashizume W., Imortani K., Ishii Y., Itou M., Kagawa I.,
RA Miyazaki A., Sakai K., Sasaki D., Shibata K., Shingawa A.,
RA Yasunishi A., Yoshino M., Waterston R., Lander E.S., Rogers J.,
RA Birney E., Hayashizaki Y.;
RT "Analysis of the mouse transcriptome based on functional annotation of
67 770 full-length cDNAs";
RL Nature 420:563-573 (2002).
RN [5]

NUCLEOTIDE SEQUENCE.

STRAIN=C57BL/6J; TISSUE=Head; MEDLINE=21085660; PubMed=1217851; DOI=10.1038/35055500;

Kawai J., Shirinaga A., Shibata K., Yoshino M., Itoh M., Ishii Y., Arikawa T., Hara M., Fukunishi Y., Konno H., Adachi J., Fukuda S., Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamakawa I., Saito T., Okazaki Y., Gojobori T., Bono H., Karukawa T., Saito R., Kedota K., Matsuda H.A., Asburner M., Baralov S., Casavant T., Fleischmann R., Graber T., Gissi C., King B., Kochwa H., Kuehl P., Lewis S., Matsuo Y., Mikaido I., Pesole G., Quackenbush J., Schinelli L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T., Saito K., Okido T., Furuno M., Aono M., Baldarelli P., Barsh G., Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F., Brownstein M.J., Bult C., Fletcher C., Fujita M., Garibaldi M., Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H., Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P., Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N., Saez H., Sato K., Schenckbach C., Seva T., Shibata Y., Storch K.-F., Suzuki H., Toyo-oka K., Wang K.H., Weitz C., Whittaker C., Wilming L., Wymore-Boris A., Yoshida K., Hassegawa Y., Kawaji H., Koh-tsuki S., Hayashizaki Y., "Functional annotation of a full-length mouse cDNA collection.", Nature 409:685-690(2001). [6]

RP RN
RN RP
RC RX
RC RX
RA RA
RA RA
RT RT
RL RL
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RN RN
NUCLEOTIDE SEQUENCE.
STRAIN=C57BL/6J; TISSUE=Head;
MEDLINE-2050913; PubMed=11076861; DOI=10.1101/gr.145100;
Carninci P., Shibata K., Itoh M., Itoh M., Kojima Y., Nishii Y., Nakamura S., Hayatsu N., Suganbara Y., Shibata K., Itoh M., Kojima Y., Nishii Y., Nakamura S., Hayatsu N., Suganbara Y., Hayashizaki Y.; "Normalization and subtraction of cap-trap-er-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes.", Genome Res. 10:1617-1630(2000). [7]

"RIKEN integrated sequence analysis (RISA) system-384-format sequencing pipeline with 384 multicapillary sequencer.",; Genome Res. 10:1757-1771(2000). [8]

NUCLEOTIDE SEQUENCE.
STRAIN=C57BL/6J; TISSUE=Head;
Adachi J., Aizawa K., Akahira S., Akimura T., Arai A., Aono H., Arakawa T., Bono H., Carninci P., Fukuda S., Fukunishi Y., Furuno M., Hanagaki T., Hara A., Hayatsu N., Hiramoto K., Hirooka T., Hori F., Imottani K., Ishii Y., Itoh M., Izawa M., Kasukawa T., Kato H., Kawai J., Kojima Y., Konno H., Kouda M., Koya S., Kurimura C., Matsumaya T., Mizazaki A., Nishi K., Nomura K., Numazaki R., Ohno M., Okazaki Y., Okido T., Owa C., Saito H., Saito R., Sakai C., Sakai K., Sano H., Saburi D., Shibata K., Shiba Y., Shinagawa A., Shiraki T., Sogabe Y., Suzuki H., Tagami M., Tazawa A., Takahashi F., Tanaka T., Tejima Y., Toya T., Yamamura T., Yasunishi A., Yoshida K., Yoshino M., Muramatsu M., Hayashizaki Y., Muramatsu M., Hayashizaki Y., Submitted (JUN-2000) to the EMBL/GenBank/DBJ databases.

CC CC
DR DR
DR DR
SEQUENCE 218 AA: 2447 MW: 5539055BFDDDB8C2 CRG64;

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distributed under the Creative Commons Attribution-NonDerivs License

EMBL: AK014084; BAB29147.1.; mRNA.
Ensembl: ENSMUSG0000022978; Mus musculus.
MGI: MGJ:1913828; 2610039C10Rik.
Hypothetical protein.
SEQUENCE 218 AA: 2447 MW: 5539055BFDDDB8C2 CRG64;

Quarry Match

Bengali 210

Matchless 48: Conservative 30: Mismatches 102: Indels 26: Gaps 6:

DOASFTSMEWDTOVMKGSSPLGPAGIGAEEPAAGPOTPSWLOPERCAVFOCAOCHAVIA
88

- RC STRAIN=C57BL/6J; TISSUE=EGG, and Whole body';
 RX MEDLINE=21085660; PubMed=121217851; DOI=10.1038/35055500;
 RA Kawai J., Shinagawa K., Yoshino M., Itoh M., Ishii Y.,
 RA Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
 RA Mizutani K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamamoto I.,
 RA Saito T., Ohzaki Y., Gojobori T., Bonc H., Kasukawa T., Saiki R.,
 RA Kodota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
 RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,
 RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
 RA Schriml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,
 RA Sakai K., Okido T., Furuno M., Nono H., Baldarelli R., Barsh G.,
 RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
 RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
 RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
 RA Lyons P., Marchionni L., Mashima J., Mazzarella J., Monbergs P.,
 RA Nordone P., Ring B., Ringwald M., Rodriguez J., Sakamoto N.,
 RA Sabaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
 RA Suzuki H., Toyo-oka K., Wang K.H., Weitz C., Whitaker C., Wilming L.,
 RA Wyrshaw-Boris A., Yoshida K., Haegawa Y., Kawaji H., Kohsuki S.,
 RA Hayashizaki Y.;
 RT Functional annotation of a full-length mouse cDNA collection.";
 RL Nature 409:685-690(2001).
 RN [6]
- RP NUCLEOTIDE SEQUENCE.
 RC STRAIN=C57BL/6J; TISSUE=EGG, and Whole body';
 RX MEDLINE=20493974; PubMed=11042159; DOI=10.1101/gr.145100;
 RA Carninci P., Shibata Y., Hayashi Y., Suganara Y., Shibata K., Itoh M.,
 RA Komi H., Okazaki Y., Muramatsu M., Hayashizaki Y.,
 RT "Normalization and subtraction of cap-trapper-selected cDNAs to
 RT prepare full-length cDNA libraries for rapid discovery of new genes.",
 Genome Res. 10:1617-1630(2000).
 RL [7]
- RP NUCLEOTIDE SEQUENCE.
 RC STRAIN=C57BL/6J; TISSUE=EGG, and Whole body';
 RX MEDLINE=20505913; PubMed=11076861; DOI=10.1101/gr.152600;
 RA Shibata K., Itoh M., Aizawa K., Nagao S., Sakaki N., Carninci P.,
 RA Kondo H., Akiyama J., Nishi K., Kitsunai T., Tashiro H., Itoh M.,
 RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishimine A., Harada A.,
 RA Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,
 RA Fujiwara S., Inoue K., Togawa Y., Izawa M., Ohara E., Watahiki M.,
 RA Toneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsuura S., Kawai J.,
 RA Okazaki Y., Muramatsu M., Inoue K., Hayashizaki Y.;
 RT "RIKEN integrated sequence analysis (RISA) system-384-format
 sequencing pipeline with 384 multicapillary sequencer.";
 RL Genome Res. 10:1757-1771(2000).
 RN [8]
- RP NUCLEOTIDE SEQUENCE.
 RC STRAIN=C57BL/6J; TISSUE=whole body;
 RA Adachi J., Aizawa K., Akahira S., Akimura T., Arai A., Aono H.,
 RA Arakawa T., Bono H., Carninci P., Fukuda S., Fukunishi Y., Furuno M.,
 RA Hanagaki T., Hara A., Hayashi N., Hirayama T., Horii F.,
 RA Imotani K., Ishii Y., Itoh M., Izawa M., Kasukawa T., Kato H.,
 RA Kawai J., Kojima Y., Konno H., Kouda M., Koya S., Kurihara C.,
 RA Matsuyama T., Miyazaki A., Nishi K., Nomura K., Numazaki R., Ohno M.,
 RA Okazaki Y., Okido T., Owa C., Saito H., Saito R., Sakai C., Sakai K.,
 RA Sano H., Sakai D., Shibata K., Shibusawa A., Shiraki T.,
 RA Sogabe Y., Suzuki H., Tagami M., Tagami Y., Takahashi F., Tanaka T.,
 RA Tejima Y., Toya T., Yamamura T., Yasunishi A., Yoshida K., Yoshino M.,
 RA Muramatsu M., Hayashizaki Y.,
 Submitted (JUL-2000) to the EMBL/GenBank/DDBJ databases.
 RN [9]
- RP NUCLEOTIDE SEQUENCE.
 RC STRAIN=C57BL/6J; TISSUE=Egg;
 RA Arakawa T., Carninci P., Fukuda S., Hashizume W., Hayashida K.,
 RA Hori F., Iida J., Immamura K., Imotani K., Itoh M., Kanabawa S.,
 RA Kawai J., Kojima M., Konno H., Murata M., Nakamura M., Niinomiya N.,
 RA Nishiyori H., Nomura K., Ohno M., Sakazume N., Sano H., Sasaki D.,
 RA Muramatsu M., Hayashizaki Y.;
 Submitted (APR-2004) to the EMBL/GenBank/DDBJ databases.
 RN [10]
- RP NUCLEOTIDE SEQUENCE.
 RC STRAIN=C57BL/6; TISSUE=Eye;
- Query Match 9.6%; Score 115.5; DB 2; length 204;
 Matches 50; Conservative 29; Mismatches 97; Indels 19; Gaps 7;
- QY 29 DOSASFTTNEWDQIVKQKSSPLPAGPAGAEPAPGDPQPSWLOPERAVFOCAQCHAVALA 88
 Db 15 DSSRYRLQRKWAN--MSSADALGKLERPEEKKAENAEP-----LVFLCARCRPLG 64
- QY 89 DSYHLANDLSR-SLGAVVFSRVTINVNLAEPLVIGLSKGSTYNILFCGSGCIPQGFH 147
 Db 65 DS--LTWVAQSDETNCILRSVNSVSKVKEPLSKRDDEGQILEAYCTCSLSITVY 122
- QY 148 LYSTHAAALRQHICFSSDKWVCYLL--KTKAVNNSEMDIONVPISKEIAZKEKIVL 205
 Db 123 YRCTPKNDYKDLFCLSVEAVESYTGLSSEKOIV-SEDKSLFLN--ESRVIEKSIQ 178
- Db 206 THRLKSMKLNSEV 220
 QY 179 MEEVLTALQKKEBV 193
- RESULT 5
 C045_HUMAN
 ID C045_HUMAN
 STANDARD; PRT; 233 AA.
 AC Q8NYP9;
 DT 11-JAN-2001, integrated into UniProtKB/Swiss-Prot.
 DT 01-OCT-2000, sequence version 1.
 DT 07-FEB-2006, entry version 27.
 DE Protein C2orf45;
 GN Name=C2orf45;
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
 OC Mammalia; Eutheria; Buauchontoglires; Primates; Catarrhini; Homindae;
 OC Homo.
 NCBI - TaxID=9606;
- [1] Name=C2orf45;
- RP NUCLEOTIDE SEQUENCE [mRNA].
 RX MEDLINE=20237674; PubMed=10773462; DOI=10.1016/S0378-1119(00)00089-5;
 RA Slavov D., Hattori M., Sakaki Y., Rosenthal A., Shimizu N.,
 RA Minoshima S., Kudo J., Vaspo M.-L., Ramer J., Reinhardt R.,
 RA Reimer C., Clancy K., Rymitch A., Gardiner K.;
 RT "Criteria for gene identification and features of genome organization:
 RT analysis of 6.5 Mb of DNA sequence from human chromosome 21.";
 RL Gene 247:215-232(2000).
 RN [2]
- RP NUCLEOTIDE SEQUENCE [LARGE SCALE mRNA].
 RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge G.J.,
 RA Klausner R.D., Collins F.S., Wagner L., Shemesh C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaffer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heien F.,
 RA Blatchko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C., RL DNA Res. 12:117-126 (2005).
 RA Raha S.S., Loqueland N.A., Peters G.J., Abramson R.D., Mullany S.J., RN [2]
 RA Boddy S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H., RP NUCLEOTIDE SEQUENCE.
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., RC TISSUE-Brain,
 RA Villalon D.K., Mizny D.M., Sodergren E.J., Lu X., Gibbs R.A., RA MEDLINE=21001410; PubMed=11010876; DOI=10.1042/0264-6021:3510019;
 RA Fahey J., Helton E., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., RA Dowler S.J.; Currie R.A.; Campbell D.G.; Deak M.; Kular G.,
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., RA Downes C.P.; Allesio D.R.; Currin R.A.; Campbell D.G.; Deak M.; Kular G.,
 RA Blakesley R.W., Touchman J.W., Green B.D., Dickson M.C., RA Identification of pleckstrin-homology-domain-containing proteins with
 RA Rodriguez A.C., Grimes J., Schmitz J., Myers R.M., RA novel Phosphoinositide-binding specificities.";
 RA Butterfield Y.S.N., Krywinski M.I., Skalska U., Smailus D.E., RA Biochem. J. 351:19-31(2000).
 RA Schnarch A., Schein J.B., Jones S.J.M., Marra M.A.,
 RT "Generation and initial analysis of more than 15,000 full-length human
 RT and mouse cDNA sequences.", Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
 RL CC -I- SIMILARITY: To S.pombe SPC970.12.
 CC Copyrighted by the UniProt Consortium, see <http://www.uniprot.org/terms>
 CC Distributed under the Creative Commons Attribution-Nodevirs License
 CC EMBL; BC231217; AAFF72945.1; -; mRNA.
 DR DR Ensembl; ENSG0000159055; Homo sapiens.
 DR HGNC; HGNC:1286; C21orf45.
 CHAIN 1 233 Protein C21orf45.
 FT /FTid=PRO_0000079515.
 SQ SEQUENCE 233 AA; 25863 MW; A07522806C4B6221 CRC64;
 Query Match 9.4%; Score 113; DB 1; Length 233;
 Best Local Similarity 27.1%; Pred. No. 0.05; Gaps 8;
 Matches 52; Conservative 30; MisMatches 88; Indels 22; Gaps 8;
 QY 31 ASFTTSMEMDTQVVKGGSPPLGPAGLGAEPAGPQLPSWLQPERCAVFOCAQCHAVIDS 90
 49 ASWMSMSEDAV---ADMERAQL--EEAIAAE----BRPLVFLCSRRPLGS 95
 QY 91 VHJAWDSL-SLGAVVFSRVTNNVTEAPFLVGIESLGSKGSTNLFLFCGSCGIPVGFLHY 149
 96 --LSWVASQEDTINCILRCVCNVSVDQEQQQLSKREKEKGCVLTLCCAGCSLNLYGVIR 153
 Db 150 STHAAALALRGHCISDKMVCLL-KITAVNASEMDIQNPULSEKIAELKEKVILTH 207
 QY 154 CTPKNLDYKRDLFCLSVBAIESYVLGSSSEKOIV-SEDKEFLNL--ESRVEIKSLTOME 209
 Db 208 NRKLKMLKILSE 219
 QY 210 DVLKALQMKLWE 221
 Db
 RESULT 6
 Q54220 HUMAN PRELIMINARY; PRT; 233 AA.
 ID Q54220 HUMAN PRELIMINARY; PRT; 233 AA.
 AC Q54220; integrated into UniProtKB/TREMBL.
 DT 24-MAY-2005, sequence version 1.
 DT 24-MAY-2005, sequence version 1.
 DT 07-MAR-2006 entry version 8.
 DE Hypothetical protein FLJ90800 (FAP1-associated protein 1).
 GN Name=FASPI;
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homidae;
 OC Homo.
 OC NCBI_TaxID=9606;
 OX RN
 RN [1] NUCLEOTIDE SEQUENCE.
 RP NUCLEOTIDE SEQUENCE.
 RA Pubmed=1530743; DOI=10.1093/dnarecs/12.2.2117;
 RA Orsuki T., Ota T., Nishikawa T., Hayashi K., Suzuki Y., Yamamoto J., RA Watanabe H., Fujiyama A., Hattori M., Taylor T.D., Toyoda A.,
 RA Wakamatsu A., Kimura K., Sakamoto K., Hatano N., Kawai Y., Ishii S., RA Kuroki Y., Noguchi H., Benihara A., Lehrach H., Subbrak R., Kubo M.,
 RA Kita T., Kojima S., Sugiyama T., Ono T., Okano K., Yoshikawa Y., RA Taenzer S., Galgoczy P., Platzer M., Scherffe M., Nordisk G.,
 RA Bloecker H., Heilmann I., Khaitovich P., Paabo S., Reinhardt R., RA Zheng H.-J., Zhang X.-L., Zhu G.-F., Wang B.-F., Fu G., Ren S.-X.,
 RA Zhao G.-P., Chen Z., Lee Y.-S., Cheong J.-E., Choi S.-H., Wu K.-M., RA Liu T.-T., Hsiao K.-J., Tsai S.-F., Kim C.-G., Oota S., Kitano T., RA Kohara Y., Saitou N., Park H.-S., Wang S.-Y., Yaspo M.-L., Sakaki Y., RA RT "DNA sequence and comparative analysis of chimpanzee chromosome 22.";
 RT Nature 429:382-388 (2004).
 RL capped cDNA libraries.", CC -I- SIMILARITY: To S.pombe SPC970.12.

RESULT 7
 CU045_PANTR STANDARD; PRT; 232 AA.
 ID CU045_PANTR STANDARD; PRT; 232 AA.
 AC Q8BUT5; DT 23-NOV-2004, integrated into UniProtKB/Swiss-Prot.
 DT 11-OCT-2004, sequence version 1.
 DT 07-FEB-2006 entry version 9.
 DE Protein C21orf45 homolog.
 OS Pan troglodytes (Chimpanzee).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homidae;
 OC Pan.
 OX NCBI_TaxID=9598;
 RN [1] NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
 RP PUBMED=15164055; DOI=10.1038/nature02564;
 RA Watanabe H., Fujiyama A., Hattori M., Taylor T.D., Toyoda A.,
 RA Kuroki Y., Noguchi H., Benihara A., Lehrach H., Subbrak R., Kubo M.,
 RA Taenzer S., Galgoczy P., Platzer M., Scherffe M., Nordisk G.,
 RA Bloecker H., Heilmann I., Khaitovich P., Paabo S., Reinhardt R., RA Zheng H.-J., Zhang X.-L., Zhu G.-F., Wang B.-F., Fu G., Ren S.-X.,
 RA Zhao G.-P., Chen Z., Lee Y.-S., Cheong J.-E., Choi S.-H., Wu K.-M., RA Liu T.-T., Hsiao K.-J., Tsai S.-F., Kim C.-G., Oota S., Kitano T., RA Kohara Y., Saitou N., Park H.-S., Wang S.-Y., Yaspo M.-L., Sakaki Y., RA RT "DNA sequence and comparative analysis of chimpanzee chromosome 22.";
 RT Nature 429:382-388 (2004).
 RL capped cDNA libraries.", CC -I- SIMILARITY: To S.pombe SPC970.12.

DR	GO; GO:0007059; P:chromosome segregation; IMP.
DR	GO; GO:0016575; P:kintetochore assembly; TAS.
DR	GO; GO:0051382; P:kinetochore assembly; TAS.
DR	GO; GO:0031503; P:protein complex localization; TAS.
DR	GO; GO:0031066; P:regulation of histone deacetylation at cent. . . ; IMP.
KW	Complete proteome; Hypothetical protein.
FT	CHAIN 1 155 Hypothetical protein C970_12 in chromosome III.
FT	/FTID=PRO_0000116562.
SQ	SEQUENCE 155 AA; 17874 MW; R7AEBD0F93760B0B CRC64;
Query Match	8 8%; Score 105; DB 1; Length 155;
Best Local Similarity	30.1%; Pred. No. 0.17; DB 1; length 155;
Matches	41; Conservative 18; Mismatches 61; Indels 16; Gaps 6;
NCBI_TaxID=4896;	
[1]	NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
STRAIN=972;	
MEDLINE=21848401; PubMed=11859360; DOI=10.1038/nature724;	
Wood=21848401; Gwilliam R., Rajandream M.A., Lyne M.H., Lyne R., Stewart A.,	
SGouras J.G., Peat N., Hayles J., Baker S.G., Basham D., Bowman S.,	
Brooks K., Brown D., Chillingworth T., Churcher C.M.,	
Collins M., Connor A., Cronin A., Davis P., Feltwell T., Fraser A.,	
Gentles S., Goble A., Hamlin N., Harris D.E., Hidalgo J., Hodgson G.,	
Holiday S., Hornsby T., Howarth S., Huckle E.J., Hunt S., Jagels K.,	
James K.D., Jones L., Jones M., Leathem S., McDonald S., McLean J.,	
Mooney P., Moule S., Munzall K.L., Murphy L.D., Niblett D., Odell C.,	
Oliver K., O'Neil S., Pearson D., Quail M.A., Rabinowitz B.,	
Rutherford K.M., Rutledge D., Seeger K., Sharp S.,	
Skeaton J., Simmonds M.N., Squares R., Squares S., Stevens K.,	
Taylor K., Taylor R.G., Tivey A., Welsh S.V., Warren T., Whitehead S.,	
Woodward J.R., Yalcinkaya G., Aert R., Robben J., Grymonpre B.,	
Welljens I., Vanstreels E., Ringer M., Schaefer M., Mueller-Auer S.,	
Gabel C., Fuchs M., Duesterhoeft A., Fritz C., Holzer B., Moestl D.,	
Hibert H., Borzym K., Langer I., Beck A., Lenhach H., Reinhardt R.,	
Pohl T.M., Eger P., Zimmermann W., Wedler H., Wambutt R., Purnelle B.,	
Goffeau A., Cadieu E., Dreano S., Gloux S., Lelaurie V., Motter S.,	
Galibert F., Avee S.J., Xiang Z., Hunt C., Moore K., Hurst S.M.,	
Lucas M., Rochet M., Gailardin C., Taillarda V.A., Garzon A., Thode G.,	
Daga R.R., Cruzado I., Jimenez J., Sanchez M., del Rey F., Benito J.,	
Dominguez A., Revuelta J.I., Moreno S., Armstrong J., Fornsborg S.L.,	
Cerutti L., Love T., McCombie W.R., Paulsen I., Potashkin J.,	
Shpakovski G.V., Usery D., Barrell B.G., Nurse P.;	
"The genome sequence of Schizosaccharomyces pombe.";	
Nature 415:871-880(2002).	
- SIMILARITY: To human c21orf45.	
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EMBL; AL01530; CABY2327_1; -; Genomic_DNA.	
GeneDB_Spombe; SPCC970_12; -	
Biocyc; SPOM-XX-01; SPOM-KXX-01-002203-MONOMER; -	
GO; GO:0031511; C:Mi6 centromere subcomplex; TAS.	
GO; GO:0005515; F:protein binding; IMP.	
GO; GO:0031055; P:chromatin remodeling at centromere; IMP.	
QY	62 AGPQLP---SW---LOPERCAVFOC-----AQCHAVLAD--SVHLAIDL----- 98
QY	2 AAQPLRHSRCAATPRRGDFCGTERIDQASFTSMEDWTQVKGSSPLGPGLGABEPA 61
QY	49 APTPLPFRRAVRAKAAQDGSGCTTSSASPAVAST----DVAVVPGRERATSG-PASDPV 102
QY	99 ----RSIGAV--VFSEPVNNVLEAPFLVGIEGSLKGSTYIIL--FGCGCGI-----P 143
Db	163 DIKKRPEGLERHMRMSLGLNN----LSEIRGSLR-VTYVQHQLAGKGCGKSTIPNP 214
Db	103 AGRGSPAAVLSWEELOVEMGRILEAGARVIGREIAHARVAAVSANKRADLAHDLABARE 162
QY	144 VGFHIVSTHAAAL---RGHFCLSSDKM-----VCVILKTKTAVINASEMDIONV- 190
Db	215 DEFSTTSLLSLBLAAAMEETISRKHAARIGEENNSRIVGACHLACURLAHPELDUBIL 273

QY	191	PLSRKIAELKEKIV	204	RN	[3]
Db	274	DQGEBASDARKDVMVEVGDIKGSVL	297	RP	NUCLEOTIDE SEQUENCE.
RESULT	12			RC	STRAIN=C57BL/6J; TISSUE=Testis;
QVOJ4 MOUSE		PRELIMINARY;	PRT;	RC	Pubmed=16141073; DOI=10.1126/science.1112009;
ID	Q3V0J4	:	:	RX	RIKEN Genome Exploration Research Group, and Genome Science Group
AC	Q3V0J4_	:	:	RG	(Genome Network Core Team) and the FANTOM Consortium;
DT	11-OCT-2005	integrated into UniProtKB/TREMBL.		RT	"Antisense Transcription in the Mammalian Transcriptome.";
DT	11-OCT-2005	sequence version 1.		RL	Science 309:1564-1566(2005).
DT	07-FEB-2006	entry version 6.		RN	[4]
DE	Adult male testis cDNA, RIKEN full-length enriched library.			RP	NUCLEOTIDE SEQUENCE.
clone:	930572N15 product:hypothetical Ankyrin/Ankyrin repeat profile			RC	STRAIN=C57BL/6J; TISSUE=Testis;
DE	profile:Ankyrin repeat region circular profile containing protein,			RC	Medline=22354683; PubMed=12466851; DOI=10.1038/nature01266;
DE	full insert sequence.			RA	Ozakai Y., Furuno M., Kasukawa T., Adachi J., Bono H., Kondo S.,
GN	Name=q3v0j4AN15Rik;			RA	Nikaido I., Osato N., Saito R., Suzuki H., Yamamoto T., Kiyosawa H.,
OS	Mus musculus (Mouse).			RA	Yagi K., Tomaru Y., Hasegawa Y., Nogami A., Schonbach C., Gojobori T.,
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;			RA	Baldarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush J.,
OC	Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;			RA	Schrinl L.M., Kanapin A., Matsuda H., Battalov S., Beisel K.W.,
OC	Muroidea; Muridae; Murinae; Mus.			RA	Blake J.A., Bradt D., Brusic V., Chothia C., Corbani L.E., Cousins S.,
OX	NCBI_TAXID=10090;			RA	Dalla E., Dragani T.A., Fletcher C.F., Forrest A.R., Frazer K.S.,
RN	[1]			RA	Gaasterland T., Garibaldi M., Gissi P., Godzik A., Gough J.,
RP	NUCLEOTIDE SEQUENCE.			RA	Grimmond S., Gusinsic S., Hirokawa N., Jackson J., Jarvis E.D.,
RC	STRAIN=C57BL/6J; TISSUE=Testis;			RA	Kanai A., Kawaji H., Kawasawa Y., Kedzierski R.M., King B.L.,
RC	Medline=9279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;			RA	Komagaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,
RX	Carninci P., Kasukawa T., Katta Yama S., Gough J., Frith M.C., Maeda N.,			RA	Maglott D.R., Maltais L., Marchionni L., McKenzie L., Maki H.,
RX	"High-efficiency full-length cDNA cloning.";			RA	Megashima T., Numata K., Okido T., Peaven W.J., Peretea G., Pessole G.,
RT	Methods Enzymol. 303:9-44(1999).			RA	Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramchandran S.,
RL	[2]			RA	Ravasi T., Reed J.C., Reed D.J., Reid J., Ringwald M.,
RN	NUCLEOTIDE SEQUENCE.			RA	Sandelin A., Schneider C., Semple C.A., Setou M., Shimada K.,
RP	NUCLEOTIDE SEQUENCE.			RA	Sultana R., Takekata Y., Taylor M.S., Teasdale R.D., Tomita M.,
RC	STRAIN=C57BL/6J; TISSUE=Testis;			RA	Verardo R., Wagner L., Wahlestedt C., Wang Y., Watnabe Y., Wells C.,
RC	PubMed=16141072; DOI=10.1126/science.1112014;			RA	Wilming L.G., Wynshaw-Boris A., Yang J., Yang L.,
RA	Oyama R., Revasi T., Lenhard B., Wells D., Kodzius R., Shimokawa K.,			RA	Yuan Z., Zavolan M., Zhu Y., Zimmer A., Carninci P., Hayatsu N.,
RA	Baji V.B., Brenner S.E., Battalov S., Forrest A.R., Zavolan M.,			RA	Hirozane-Kishikawa T., Konno H., Nakamura M., Sakazume N., Sato K.,
RA	Davis M.J., Wilming L.G., Alldins V., Allen J.E.,			RA	Shiraki T., Waki K., Kawai J., Aizawa K., Araoka T., Fukuda S.,
RA	Gustincich S., Harbers M., Hayashi Y., Hensch T.K., Hirokawa N.,			RA	Hara A., Hashizume W., Imotsuki K., Ishii Y., Itoh M., Kagawa I.,
RA	Carninci P., Kasukawa T., Itoe K., Iwama A., Isakiwa T.,			RA	Miyazaki A., Sakai D., Shiba K., Shingawa A.,
RA	Bansal M., Baxter L., Beisel K.W., Borsig T., Bono H., Chalk A.M.,			RA	Yasunishi A., Yoshino M., Waterston R., Lander E.S., Rogers J.,
RA	Chiu K.P., Choudhury V., Christoffels A., Clutterbuck D.R.,			RA	Birney E., Hayashizaki Y.,
RA	Crowe M.L., Dalla E., Dalrymple B.P., de Bono B., Della Gatta G.,			RT	"Analysis of the mouse transcriptome based on functional annotation of
RA	di Bernardo D., Down T., Egertrom P., Fagiolini M., Faulkner G.,			RT	60,770 full-length cDNAs.";
RA	Fletcher C.F., Fukushima T., Furuno M., Furukawa M.,			RT	Nature 420:563-573 (2002).
RA	Garibaldi M.,			RN	[5]
RA	Gustincich S., Harbers M., Hayashi Y., Hensch T.K., Hirokawa N.,			RP	NUCLEOTIDE SEQUENCE.
RA	Hill D., Hummicki L., Iacono M., Itoe K., Iwama A., Isakiwa T.,			RC	STRAIN=C57BL/6J; TISSUE=Testis;
RA	Jakt M., Kamapin A., Katoh M., Kawasawa Y., Kitano H.,			RC	Medline=2105660; PubMed=12127051; DOI=10.1038/35055500;
RA	Kitano H., Kollias G., Krishnan S.P., Kruger A., Kummerfeld S.K.,			RA	Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA	Kurochkin I.V., Larreau L.F., Lazarevic D., Lipovich L., Liu J.,			RA	Azakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
RA	Lilani S., Mowilliam S., Madan Babu M., Madera M., Marchionni L.,			RA	Aizawa K., Izawa M., Nishi K., Kiyoeda H., Kondo S., Yamakawa I.,
RA	Mattada H., Matsuzawa S., Miki H., Mignone F., Miyake S., Morris K.,			RA	Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
RA	Mittaggi-Tabar S., Mulder N., Nakano N., Nakano H., Nakauchi H., Ng P.,			RA	Kodata K., Matsuda H.A., Ashburner M., Battalov S., Casavant T.,
RA	Nitschke R., Nishiguchi S., Nishiura S., Nori F., Ohara O.,			RA	Fleischmann M., Gaasterland T., Gissi C., Kochiwa H.,
RA	Okazaki Y., Orlando V., Pang K.C., Pavan W.J., Pavese G.,			RA	Kuehl P., Lewis S., Matsuo Y., Nikaido I., Peacock G., Quackenbush J.,
RA	Petrovsky N., Piazza S., Reed J., Reid J.F., Ringwald M.,			RA	Schriml L.M., Stubbli F., Suzuki R., Tomita M., Wagner D., Washio T.,
RA	Rest B., Ruan Y., Salberg S.L., Sandelin A., Schneider C.,			RA	Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
RA	Schonbach C., Seiguchi K., Semple C.A., Sero S., Sessa L., Sheng Y.,			RA	Blake J., Bofield D., Bojunga N., Carninci P., de Bonaldo M.F.,
RA	Shibata Y., Shimada H., Shimada K., Silva D., Sinclair B.,			RA	Brownstein M.J., Bult C., Fletcher C., Fujita M., Garibaldi M.,
RA	Sherling S., Stupka E., Sutlana R., Takenaka Y., Taki K.,			RA	Gustincich S., Hill D., Hoffmann M., Hume D.A., Kamiya M., Lee N.H.,
RA	Tannoja K., Tan S.L., Tang S., Taylor M.S., Tegner J., Teichmann S.A.,			RA	Lyon P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
RA	Ueda H.R., van Nieuwegen E., Verardo R., Wei C.L., Yagi K.,			RA	Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
RA	Yamanishi H., Zabbarovsky E., Zhu S., Zimmer A., Bult C.,			RA	Sasaki H., Sato K., Schoenbach C., Suya T., Shiba T., Storch K.-F.,
RA	Grimmond S.M., Teasdale R.D., Liu E.T., Brusic V., Quackenbush J.,			RA	Suzuki H., Toyo-oka K., Wang K.H., Weitz C., Whittaker C., Wilming L.,
RA	Wahlstedt C., Mattick J.S., Hume D.A., Kai C., Sasaki D., Tomaru Y.,			RA	Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohetsuki S.,
RA	Fukuda S., Kanamori-Katayama M., Suzuki M., Aoki J., Asakawa T.,			RA	Yayashi Y.,
RA	Iida J., Inamura K., Itoh M., Kato T., Kawaji H., Kawagashira N.,			RA	"Functional annotation of a full-length mouse cDNA collection.";
RA	Kawashima T., Kojima M., Kondo S., Konno H., Ninomiya N.,			RA	Nature 409:685-690 (2001).
RA	Nishijo T., Okada M., Plessy C., Shibata K., Shiraki T., Suzuki S.,			RA	[6]
RA	Tagami M., Waki K., Watabiki A., Okamura-Oho Y., Suzuki H., Kawai J.,			RP	NUCLEOTIDE SEQUENCE.
RA	Hayashizaki Y.,			RC	STRAIN=C57BL/6J; TISSUE=Testis;
RA	"The transcriptional landscape of the mammalian genome.";			RC	Medline=2049374; PubMed=1042159; DOI=10.1101/gr.145100;
RL	Science 309:1559-1563 (2005). "The transcriptional landscape of the mammalian genome.";			RA	Carninci P., Shibata Y., Hayatsu N., Sugahara Y., Shibata K., Itoh M.,
RL	prepare full-length cDNA libraries for rapid discovery of new genes.";			RA	Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.,

RL	Genome Res.	10:1617-1630(2000).	ID	Q40626_LeIMA	PRELIMINARY;	PRT;	1556 AA.	
RN	[7]		AC	Q40626;				
RP	NUCLEOTIDE SEQUENCE.		DT	19-JUL-2005	integrated into UniProtKB/T-EMBL.			
RC			DT	19-JUL-2005	sequence version 1.			
RX	MEDLINE=20050913; PubMed=11076861; DOI=10.1101/gr.152600;		DT	07-FEB-2006	entry version 3.			
RA	Shibata K., Itoh M., Aizawa K., Nagakawa S., Sabaki N., Carninci P., Konno H., Akiyama J., Nishi K., Kitsunai T., Tashiro H., Itoh M., Suni N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A., Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K., Fujiwara S., Inoue K., Togawa Y., Izawa M., Ohira E., Watanuki M., Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsunaga S., Kawai J., Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;		DE	Hypothetical protein;				
RA	"RIKEN integrated sequence analysis (RISA) system-34-format sequencing pipeline with 384 multicapillary sequencer.;"		GN	OffNames=LmjF31_2350;				
RT	Genome Res. 10:1757-1771(2000).		OS	Leishmania major.				
RN	[8]		OC	Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae; Leishmania.				
RP	NUCLEOTIDE SEQUENCE.		OX	NCBI_TaxID=5664;				
RC			RN	[1]				
RA	STRAIN=C57Bl/6J; TISSUE=Testis;		RC	NUCLEOTIDE SEQUENCE.				
RA			RA	STRAIN=PFriedlin;				
RA			RA	PubMed=1602028; DOI=10.1126/science.1112680;				
RA			RA	Ivens A.C., Peacock C.S., Worthley E.A., Murphy L., Aggarwal G., Beriman M., Sisk E., Rajendream M.A., Adlem E., Bert R., Anupama A., Apostolou Z., Atticope P., Basin N., Bauser C., Beck A., Beverley S.M., Blachettin G., Borzini K., Botte G., Bruschi C.V., Collins M., Cadag E., Ciaroni L., Clayton C., Coulson R.M.R., Cronin A., Cruz A.K., Davies R.M., De Gaudenzi J., Dobson D.E., Duisterhoeft A., Fazelinia G., Fisher N., Frasch A.C., Fraser A., Fuchs M., Gabel C., Goble A., Goffeau A., Harris D., Hertz-Fowler C., Hilbert H., Horn D., Huang Y., Klages S., Knights A., Kubo M., Larke N., Litvin L., Lord A., Louie T., Marra M., Masuy D., Matthew K., Michaels S., Mottram J.C., Mueller-Auer S., Mundon H., Nelson S., Nobrecczak H., Oliver K., O'Neil S., Penney M., Pohl T.M., Price C., Purcell B., Quail M.A., Rabbinowitsch E., Reinhardt R., Rieger M., Rinta J., Robben J., Robertson L., Ruiz J.C., Rutter S., Saunders D., Schaefer M., Schein J., Schwartz D.C., Seeger K., Seyler A., Sharp S., Shin H., Siwan D., Squares S., Tocato V., Vogt C., Volckaert G., Wambutt R., Warren T., Wedler H., Woodward J., Zhou S., Zimmermann W., Smith D.F., Blackwell J.M., Stuart K.D., Barrell B.G., Myler P.J.;				
RA	"the genome of the kinetoplastid parasite, Leishmania major."		RA	"the genome of the kinetoplastid parasite, Leishmania major."				
RA	Science 309:436-442(2005).		CC	Copyrighted by the UniProt Consortium, see http://www.uniprot.org/terms				
RA			CC	Distributed under the Creative Commons Attribution-NoDerivs License				
RA			CC					
DR	SMART; SM00248; ANK; 3		CC					
DR	GO; GO:0003700; P:transcription factor activity; RCA.		CC					
DR	PROSITE; PS50297; ANK REPEAT; 2.		CC					
DR	InterPro; IPR002110; ANK.		CC					
DR	PRAM; PR0023; ANK; 3.		CC					
DR	SEQUENCE; 497 AA; 56737 MW; CA087BC48CC540354 CRC64;		CC					
DR	Best Local Similarity 8.0%; Score 96; DB 2; Length 497; Matches 64; Conservative 38; Mismatches 89; Indels 112; Gaps 14;		CC					
QY	4 QPLRRHRSRCATPPRG-----DFCGTERA-----ID 29		CC					
Db	3 RPRRRKSTAPPRSHTRTPGSDSRRPGTKEQPRPSVQSGTROEHDLKVSPPNSE 62		CC					
QY	30 QASFTTSMWDTQVVKGSPLPGLPAGLATEPAAQPQLPSWLQ----PER-----C 75		CC					
Db	63 SSQYTSSELISHKVIANTSEELFAASVGNTD-----WLRFCVNPERKEIVDDKGFT 113		CC					
QY	76 AVFOCAQ----CHAVLAUSVHLWLDSLRSLG----ATWFSRVNNVYLEAPFLVGLEG 125		CC					
Db	114 AIHPAAQKQCQLSCLKLVLIBKYKVFDLPTKGQTLPHLVHKNKNSDILPCIDYLKKGA 173		CC					
QY	126 SLKGSYTNLLPGCGCGIPVGFHYLSTHAALALA-----GHFCISSL 166		CC					
Db	174 AINSOTYN----GSTPL---HLASCNGLIGCILKLVOSGANHARDATGFKPINYCRLW 225		CC					
QY	167 DKWYC-----YLIKTATVNASENDIONVPLSEKIALEIKEKI-VLTNRRKSLMK--I 216		CC					
Db	226 NHRCAREFLKDVWVKHDKKVLQAQM-----EKURTLKEKLTILEVHYLYVQEHOI 277		CC					
QY	217 LSE 219		CC					
Db	278 LRE 280		CC					
RESULT	13		CC					
Q40626_LeIMA	ORFNames=Loc_Ost12924210;		CC					

OS Oryza sativa (japonica cultivar-group).
 OC Embryophyta; Streptophyta; Tracheophyta;
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta;
 OC Magnoliophyta; Liliopsida; Poales; Poaceae; BEP clade;
 OC Ehrhartoideae; Oryzeae; Oryza;
 OX NCBI_TAXID=39947;
 RN
 RP NUCLEOTIDE SEQUENCE.
 RA Buell C.R., Wing R.A., McCombie W.A., Cuyang S.;
 RL Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.
 CC
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 CC
 DR EMBL: DP000011; ABA97657.1; -; Genomic DNA.
 SQ SEQUENCE 702 AA; 76586 MN; SB958D36E696F434 CRC64;

Query Match 7.8%; Score 93.5; DB 2; Length 702;
 Best Local Similarity 26.2%; Pred. No. 14; Gaps 18;
 Matches 67; Conservative 29; Mismatches 69; Indels 91; Gaps 18;

Qy	22	GGTERAIDASAFSTSMEMWTOVKKGSSPLPGAGPAEPADAGPOLP---SW--LQPERC	Db	103	AGGRGSPAAVLSWBSLQLQEVNGRLLEAGA--RVIGBIAEARGLERHM---SELGN---
Qy	335	GGISSASPARAAS---DVALATGSREATPSG-PVSDPAGRGPPAAVLTWBLOQENR	Db	116	EAPPILGEGSLSKGSTKML--FGSGCT-----PVGFHLYSTHALAAL---RGH
Qy	76	AVFOC-----AQCHAVLADSVHLW-----DLS--RSIGAV-----	Db	153	---LSEIRGSLR-VTYTGILHQLAGCGIKSTIPANPDEPSLTSLLABAAMEBIPSKH
Db	389	RLLKAGARSIGRETAEARSEAAANT-HDWLYRELABRARREDIJKMRSILVAVNERQRKG	Db	162	FCLSSDKM-----VCVLLKTKAIVNASEMIDQNV-----PLSEKAELEKKEI
Qy	105	--VFSRVTNNVVLLEAPFLVGLGIESLKGSTYNNL--FCGSCGI-----PVGFHLYSTHA	Db	208	AARIGEMSNRTIVGACHILACVRLAH-PELDREILDQGEASDARKDVMEVGDGSKV
Db	448	EDRMSELGNN-----LSEIRGSLR-VTYTGILHQLAGCGIKSTIPANPDEPSLTSLLABAAMEBIPSKH	Qy	204	V 204
Qy	154	ALAALRG----HFCLSSDKM-----VCVLLKTKAIVNASEMIDQNV-----	Db	267	L 267
Db	500	ELAVVMGFIPIPSKHARIABETSNGIYTGACHVL---ACVRLSRPEBLDRILEDQGAASDT	Qy	191	--PLSEKIAELKEKV 204
Db	557	REEVMEKVGDLGGSV 572	Db		

RRESULT 15
 Q8S611 ORYSA PRELIMINARY; PRT; 361 AA.
 ID Q8S611_ORYSA
 AC Q8S611;
 DT 01-JUN-2002; integrated into UniProtKB/TREMBL.
 DT 01-JUN-2002; sequence version 1.
 DT 21-FEB-2006; entry version 13.
 DB putative GPyB-type retrotransposon protein.
 GN Name=OSJNBa0096E22;
 OS Oryza sativa (japonica cultivar-group).
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; BEP clade;
 OC Ehrhartoideae; Oryzeae; Oryza;
 OX NCBI_TAXID=39947;
 RN
 RP NUCLEOTIDE SEQUENCE.
 RA Wing R.A., Yu Y., Soderlund C., Chen M., Kim H.-R., Rambo T.,
 RA Sasaki C., Henry D., Gates R., Simmons J.;
 RT "Rice Genomic Sequence.";
 RL Submitted (MAR-2002) to the EMBL/GenBank/DDBJ databases.
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 CC
 DR EMBL: AC099400; AAL91599.1; -; Genomic DNA.
 DR Gramene; Q8S611; -; 361 AA; 38805 MN; F883BB3EB888FFF45 CRC64;
 SQ SEQUENCE 361 AA; 38805 MN; F883BB3EB888FFF45 CRC64;

Query Match 7.7%; Score 92; DB 2; Length 361;
 Best Local Similarity 25.3%; Pred. No. 8.4;
 Matches 61; Conservative 28; Mismatches 92; Indels 60; Gaps 14;

Search completed: May 18, 2006, 15:40:51
 Job time : 302 secs

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APPLICATION NUMBER: 119,102
FILED DATE: 10-NOV-1987
APPLICATION NUMBER: 264,586
FILING DATE: 31-OCT-1988
SEQ ID NO.:
LENGTH: 457

Query Match 6.9%; Score 83; DB 7; Length 457;
Best Local Similarity 25.2%; Pred. No. 2.2; Matches 37; Conservative 30; Mismatches 54; Indels 26; Gaps 8;

Matches 37; Conservative 30; Mismatches 54; Indels 26; Gaps 8;

Qy 95 WDLRSIGAVVFSRVTNNV----VLEA-----PFLVGIESLKGSTYNU-FCGSCG 141
Db 316 WSLPVVALVALATASIGQGVMTMVMALEADTVEGYBLTCVR--IEGLTYSLSFRKCG 373

Qy 142 IPVGFLHYSTHALALRGHFC--LSSDKMVCYLTKTAKVNASENDIQN----PLSE 194
Db 374 QAIGG-S-PIAFILGLSGYIANQVOTPEVINGIRTIALVPGFMILLAFVIIWFPYPLTD 431

Qy 195 KIAELKEKVLTNRKSLMKLSEVT 221
Db 432 K-KFKEIVVIEDNRKKVQQQLISDT 456

RESULT 3
5432081-7
; Patent No. 5432081
; APPLICANT: JEFFERSON, RICHARD A.
; TITLE OF INVENTION: HOST CELLS TRANSFORMED WITH THE E.COLI
; GLUCORONIDE PERMEASE GENE
; NUMBER OF SEQUENCES: 10
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/138,546
; FILING DATE: 15-OCT-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 447,976
; APPLICATION NUMBER: 447,976
; FILING DATE: 08-DEC-1989
; APPLICATION NUMBER: 264,586
; FILING DATE: 31-OCT-1988
; APPLICATION NUMBER: 119,102
; FILING DATE: 10-NOV-1987
; SEQ ID NO:7:
; LENGTH: 456
; 5432081-7

Query Match 6.8%; Score 81.5; DB 7; Length 456;
Best Local Similarity 25.2%; Pred. No. 3.2; Matches 37; Conservative 30; Mismatches 53; Indels 27; Gaps 8;

Matches 37; Conservative 30; Mismatches 53; Indels 27; Gaps 8;

Qy 95 WDLRSIGAVVFSRVTNNV----VLEA-----PFLVGIESLKGSTYNU-FCGSCG 141
Db 316 WSLPVVALVALATASIGQGVMTMVMALEADTVEGYBLTCVR--IEGLTYSLSFRKCG 373

Qy 142 IPVGFLHYSTHALALRGHFC--LSSDKMVCYLTKTAKVNASENDIQN----PLSE 194
Db 375 QAIGG-GSIAFILGLSGYIANQVOTPEVINGIRTIALVPGFMILLAFVIIWFPYPLTD 431

Qy 195 KIAELKEKVLTNRKSLMKLSEVT 221
Db 432 K-KFKEIVVIEDNRKKVQQQLISDT 456

RESULT 4
US-08-882-704A-6
; Sequence 6, Application US/08882704A
; Patent No. 5879906
; GENERAL INFORMATION:
; APPLICANT: Jefferson, Richard A.
; APPLICANT: Wilson, Katherine J.
; APPLICANT: Leader, Michael
; TITLE OF INVENTION: GLUCURONIDE REPRESSORS AND USES THEREOF
; NUMBER OF SEQUENCES: 19

RESULT 5
US-08-151-957-6
; Sequence 6, Application US/09151957
; Patent No. 6429292
; GENERAL INFORMATION:
; APPLICANT: Jefferson, Richard A.
; APPLICANT: Wilson, Katherine J.
; Leader, Michael
; TITLE OF INVENTION: GLUCURONIDE REPRESSORS AND USES THEREOF
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6310 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; TITLE: GLUCURONIDE REPRESSORS AND USES THEREOF
; NUMBER OF SEQUENCES: 19

CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6310 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
TITLE: GLUCURONIDE REPRESSORS AND USES THEREOF
NUMBER OF SEQUENCES: 19

REFERENCE/DOCKET NUMBER: 190106.404
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 457 amino acid
TYPE: amino acid
STRANDEDNESS: Single
TOPOLOGY: linear
; US-08-882-704A-6

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/882,704

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: NO. 6429292terburg Ph.D., Carol

REGISTRATION NUMBER: 39,317

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 682-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 457 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: Linear

SEQUENCE DESCRIPTION: SEQ ID NO: 6:

US-09-151-957-6

Query Match 6.8%; Score 81.5; DB 2; Length 457;
Best Local Similarity 25.2%; Pred. No. 3.2.; Indels 53; Gaps 8;
Matches 37; Conservative 30; Mismatches 53; Topology: Linear

QY 95 WDLRSRSLGAVVFSRVTNNV-----VLEA-----PFLVGIESLKGSTYNLL-FCGSGC 141
Db 317 WSLRVALVALALASIGQYTMVWMALEADTVEGYEVGVR--IEGLIYSLSFRRCG 374

QY 142 IPVGFHLYSTHAAALRGHFC--LSSDKMVCYLTKRAIVNASEMIDIONV----PLSE 194
Db 375 QAIG--GSIPAFILGIGSQTIANQVQTPEWIMGRTSIALVPGFMMLAFLVIFWFYPLTD 431

QY 195 KIAKLKEKVLTINRLKSUMKILSEVT 221
Db 432 K-KFKETIVVEIDNRKKVQQQLSDIT 456

RESULT 6

US-10-195-518-6

Sequence 6, Application US/10195518

Patent No. 699829

GENERAL INFORMATION:

APPLICANT: Jefferson, Richard A.

LEADER: Michael J.

WILSON, Katherine J.

TITLE OF INVENTION: GLUCURONIDE REPRESSORS AND USES THEREOF

NUMBER OF SEQUENCES: 19

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED and BERRY LLP

STREET: 6300 Columbia Center, 701 Fifth Avenue

CITY: Seattle

STATE: Washington

COUNTRY: USA

ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/195,518

FILING DATE: 16-JUL-2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/151,957

FILING DATE: 11-Sep-1998

APPLICATION NUMBER: US 08/882,704

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: NO. 6429292terburg Ph.D., Carol

REGISTRATION NUMBER: 39,317

REFERENCE/DOCKET NUMBER: 190106-404

TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 813-5000

TELEFAX: (415) 494-0792

TELEX: 706141

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 1711 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-342-930-2

Query Match 6.7%; Score 80.5; DB 1; Length 1711;

PRIOR APPLICATION NUMBER: 135619 ;
; PRIORITY FILING DATE: 2000-04-12 ;
; NUMBER OF SEQ ID NOS: 273 ;
; SOFTWARE: Patentin version 3.0 ;
; SEQ ID NO: 237 ;
; LENGTH: 452 ;
; ORGANISM: Homo sapiens ;
; US-09-771-161A-237 ;

Query Match Score 78.5; DB 2; Length 452;
Best Local Similarity 6.6%; Mismatches 56; Conservative 24; Pred. No. 6-9; Indels 78; Gaps 12; Matches 56; Mismatches 78; Indels 83; Gaps 12;

QY 22 GGTGTAIDQASFTTSMENDTQVKGSSPLGPAGL 63
Db 43 GFPNQALRBKALQOME-DNQYVVKOLKAUPHGGFVLAPEFMQLSMLAELVVRHAQRPLAQ 101

QY 64 PQLPSWLOPERCAVFOCAQCHAVALDSLRSILGAVVFSRVTNNVV---LEAPP 119
Db 102 AQMKSYIQLQMLKGV---AFCHA-----NNIVHDLKANL 133

QY 120 LVGIEGSLKGSTYNLLFCGS CGIPVGFLHYSTRAALAALRGHFCSSLSD--- 167
Db 134 LISASGQKIKADFGLARVFS---PDGSRLY---THO---VATRSGCIMGELLNSPLFFQN 187

QY 168 ---KNVCYVLKTKAIVNASEM---DIONVPISEKIEBLKEKVILVNLRLKSIMKLTSEVNPQ 224
Db 188 DIBQLCYVILRILGTPNPQWPTELDPDYNKIS-FKEQVMPM-----LEEVLPLDV 236

QY 225 S 225
Db 237 S 237

RESULT 13
US-09-252-991A-19049
; Sequence 19049, Application US/09252991A
; Patent No. 6551795

GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSBUDOMONAS
; FILE REFERENCE: 107196-136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIORITY FILING DATE: 1999-02-18
; PRIORITY FILING DATE: 1998-02-18
; PRIORITY FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO: 19049
; LENGTH: 190
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-19049

Query Match Score 78; DB 2; Length 190;
Best Local Similarity 6.5%; Pred. No. 2.1; Mismatches 24; Conservative 6; Indels 29; Gaps 3; Matches 24; Mismatches 24; Conservative 6; Indels 14; Gaps 3;

RESULT 14
US-09-37-682-1
; Sequence 1, Application US/09537682

RESULT 15
US-09-520-933-3
; Sequence 3, Application US/09520933
; Patent No. 5981194

GENERAL INFORMATION:
; APPLICANT: Jefferies, Wilfred A.
; APPLICANT: McGee, Patrick L.
; APPLICANT: Rothenberger, Sylvia
; APPLICANT: Rod, Michael R.
; APPLICANT: Yamada, Tatsuo
; APPLICANT: Kenward, Malcolm
; TITLE OF INVENTION: Use of p97 and Iron Binding Protein B
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Berefskin & Parr
; STREET: 40 King Street West
; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: M5H 3Y2
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/520,933
; FILING DATE: August 31, 1995
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Shona S. McDiarmid

REGISTRATION NUMBER: 38,798
REFERENCE/DOCKET NUMBER: 7685-006
TELECOMMUNICATION INFORMATION:
TELEPHONE: 416-364-7311
TELEFAX: 416-361-1398
TELEX: 06-23115
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 719 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-520-933-3

Query Match 6.4%; Score 77; DB 1; Length 719;
Best Local Similarity 23.7%; Pred. No. 21;
Matches 59; Conservative 25; Mismatches 87; Indels 78; Gaps 15;
Matches 59; Conservative 25; Mismatches 87; Indels 78; Gaps 15;

QY 17 RGDDEGGITERAIDIQASFTISMEW-----DTQVWKGSPLGPAGLGABEPANGP 64
Db 171 RGSSSG--EGVCDISPLERYDVSAGFRCLAEAGAGDVAVRKHSVNL-----ENTGK 220

QY 65 QLPSWLQP-----ERCAVFOQAQCH--AVLADSVHLAWDLRSRSLGAVVFSRV 109
Db 221 TLPSWNGQALLSQDFELLCRDGSRADVTEWRQCHLARVPAHAVVRASTD--GGIF-RL 276

QY 110 TNNTVVLAEPPFLVGEGS---LKOSTY--NLLFCGSCC--IPVGFLHJST---HAAIAA 157
Db 277 LN----EGQLLFSHBGSSFQMFSSEBAYGQDILFRKDTSSELVPIATQTYEAWLGHEYLHA 332

QY 158 LRGHRCLOSSDKMVCYL---LKIKAIVNAWSEMDIQNVPLSEKLAELKEKIVLVTNRKSLI 213
Db 333 MKGLIC-DPNRLPPYLRWCWLSTPEIOKCGDM-----AWAFRRQRQLKPE 375

QY 214 MKLILSEVTP 222

Db 376 IQCVSAKSP 384

Search completed: May 18, 2006, 15:42:30
Job time : 51 secs

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- OM protein - protein search, using sw model

Run on:

May 18, 2006, 15:52:57 ; Search time 182 Seconds

(without alignments)

582.836 Million cell updates/sec

Title: US-09-942-052A-728

Perfect score: 1198

Sequence: 1 MAQPLRHSRCATPPRGDF.....LKSLMKILSEVTPDOSKPE 229

Scoring table: BLOSUM62

Gapext 10.0 , Gapext 0.5

Searched: 2097797 seqs, 463214858 residues

Total number of hits satisfying chosen parameters: 2097797

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing First 45 summaries

Database : Published Applications AA Main:*

1: /EMC_Celerra_SIDS3_ptodata/2/pubpaa/US07_PUBCOMB.pep:*

2: /EMC_Celerra_SIDS3_ptodata/2/pubpaa/US08_PUBCOMB.pep:*

3: /EMC_Celerra_SIDS3_ptodata/2/pubpaa/US09_PUBCOMB.pep:*

4: /EMC_Celerra_SIDS3_ptodata/2/pubpaa/US10_PUBCOMB.pep:*

5: /EMC_Celerra_SIDS3_ptodata/2/pubpaa/US10_PUBCOMB.pep:*

6: /EMC_Celerra_SIDS3_ptodata/2/pubpaa/US10_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

*

Result No. Score Match Length DB ID Description

Result No.	Score	Match	Length	DB	ID	Description
1	1198	100.0	229	3	US-09-942-052-728	Sequence 728, APP
2	1198	100.0	229	3	US-09-942-052-729	Sequence 729, APP
3	1198	100.0	229	3	US-09-942-052-730	Sequence 730, APP
4	1198	100.0	229	3	US-09-942-052-731	Sequence 731, APP
5	138.5	11.6	164	3	US-09-942-052-707	Sequence 707, APP
6	138	11.5	29	3	US-09-942-052-704	Sequence 704, APP
7	113	9.4	233	3	US-09-890-688-82	Sequence 890, APP
8	113	9.4	233	4	US-10-408-765A-969	Sequence 969, APP
9	95.5	8.0	708	4	US-10-437-963-195427	Sequence 195427, APP
10	92	7.7	361	4	US-10-437-963-154548	Sequence 154548, APP
11	92	7.7	695	4	US-10-369-493-18389	Sequence 18389, APP
12	89	7.4	664	3	US-09-780-525-2	Sequence 2, Appl
13	88.5	7.4	435	3	US-10-437-963-186569	Sequence 186569, APP
14	87.5	7.3	848	4	US-10-437-963-155606	Sequence 155606, APP
15	86.5	7.2	669	4	US-10-428-122A-51802	Sequence 51802, APP
16	86	7.2	584	6	US-11-096-5168A-12723	Sequence 12723, APP
17	86	7.2	619	6	US-11-096-5168A-12722	Sequence 12722, APP
18	86	7.2	644	6	US-11-096-5168A-12721	Sequence 12721, APP
19	85	7.1	337	4	US-10-156-761-10954	Sequence 10954, APP
20	84.5	7.1	485	4	US-10-363-829-358	Sequence 358, APP
21	84	7.0	295	4	US-10-424-599-223506	Sequence 223506, APP
22	84	7.0	1902	4	US-10-437-963-139559	Sequence 139559, APP
23	83	7.0	888	4	US-10-437-963-147897	Sequence 147897, APP
24	83	6.9	663	4	US-10-283-122A-51673	Sequence 51673, APP
25	82.5	6.9	124	4	US-10-425-115-216789	Sequence 216789, APP
26	82.5	6.9	278	4	US-10-423-114-42310	Sequence 42310, APP
27	82.5	6.9	325	4	US-10-663-896-2	Sequence 2, Appl

RESULT 1
; Sequence 728, Application US/09942052
; Publication No. US200301070626A1
; GENERAL INFORMATION:
; APPLICANT: Raitano, Arthur B.
; APPLICANT: Faris, Mary
; APPLICANT: Hubert, Rene S.
; APPLICANT: Afer, Daniel
; APPLICANT: Ge, Wangmao
; APPLICANT: Challita-Eid, Pia M.
; TITLE OF INVENTION: NUCICIC ACID AND CORRESPONDING PROTEIN ENTITLED 85P1B3
; FILE REFERENCE: 51158-20026..00
; CURRENT APPLICATION NUMBER: US/09/942, 052
; PRIOR APPLICATION NUMBER: 60/0228, 432
; PRIOR FILING DATE: 2000-08-28
; NUMBER OF SEQ ID NOs: 744
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 728
; LENGTH: 229
; TYPE: PRT
; ORGANISM: Unknown Organism
; FEATURE: ; OTHER INFORMATION: Description of Unknown Organism: 85P1B3/OIPS
; OTHER INFORMATION: clone A protein
US-09-942-052-728
Query Match 100.0%; Score 1198; DB 3; Length 229;
Best Local Similarity 100.0%; Pred. No. 1. 1e-113; Mismatches 0; Indels 0; Gaps 0;
Matches 229; Conservative 0; Sequence 195427, APP
Sequence 154548, APP
Sequence 18389, APP
Sequence 2, Appl
Sequence 186569, APP
Sequence 155606, APP
Sequence 51802, APP
QY 1 MAQPLRHSRCATPPRGDFCGSTERAIDAOASFTSMEWDTQVKGSPLGPGAGLGAEP 60
Db 1 MAQPLRHSRCATPPRGDFCGSTERAIDAOASFTSMEWDTQVKGSPLGPGAGLGAEP 60
Db 1 AAGPOLPSWLQPERCAVQCAOCHAVALDSLRSIGNVPRSVTNNVLEAPFL 120
Db 61 AAGPOLPSWLQPERCAVQCAOCHAVALDSLRSIGAVFWRSVTNNVLEAPFL 120
Db 121 VGEGLSKGSTYIILFCOSCCTGIPVGFIYTHALALAHLGHCLSSDKWNCVLLIKTAIV 180
Db 61 AAGPOLPSWLQPERCAVQCAOCHAVALDSLRSIGAVFWRSVTNNVLEAPFL 120
Db 181 NASBMDNDQVPLSEKIALEKEVLTNLRLKSLMKILSEVTPDOSKPE 229
Db 181 NASBMDNDQVPLSEKIALEKEVLTNLRLKSLMKILSEVTPDOSKPE 229
Sequence 155606, APP
Sequence 223506, APP
Sequence 139559, APP
Sequence 147897, APP
Sequence 51673, APP
Sequence 216789, APP
Sequence 42310, APP
Sequence 2, Appl
Sequence 1, Appl
Sequence 15342, APP
Sequence 1618, APP
Sequence 18194, APP
Sequence 60, APP
Sequence 51058, APP
Sequence 38, APP
Sequence 9214, APP
Sequence 59, APP
Sequence 59, APP
Sequence 59, APP
Sequence 155084, APP

ALIGNMENTS

RESULT 2 ;
 US-09-942-052-729 ;
 Sequence 729, Application US/09942052 ;
 Publication No. US20030170626A1 ;
 GENERAL INFORMATION:
 APPLICANT: Raitano, Arthur B.
 APPLICANT: Paris, Mary
 APPLICANT: Hubert, Rene S.
 APPLICANT: Afar, Daniel
 APPLICANT: Ge, Wangmao
 APPLICANT: Challita-Eid, Pia M.
 TITLE OF INVENTION: NUCLEAR ACID AND CORRESPONDING PROTEIN ENTITLED 85P1B3
 TITLE OF INVENTION: USEFUL IN TREATMENT AND DETECTION OF CANCER
 FILE REFERENCE: 51158-20028.00
 CURRENT APPLICATION NUMBER: US/09/942, 052
 CURRENT FILING DATE: 2001-08-28
 PRIOR APPLICATION NUMBER: 60/228, 432
 PRIOR FILING DATE: 2000-08-28
 NUMBER OF SEQ ID NOS: 744
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 729
 LENGTH: 229
 TYPE: PRT
 FEATURE:
 ORGANISM: Unknown Organism
 OTHER INFORMATION: Description of Unknown Organism: 85P1B3 protein
 OTHER INFORMATION: sequence
 OTHER INFORMATION: protein sequence
 US-09-942-052-729

Query Match 100.0%; Score 1198; DB 3; Length 229;
 Best Local Similarity 100.0%; Pred. No. 1..le-113; Mismatches 0; Indels 0; Gaps 0;
 Matches 229; Conservative 0; Misnatches 0;

Qy 1 MAAPQLRHSRCATPPRGDFCGGTERAOASFTSMENDTQVKGSSPLGPAGLAEPP 60
 Db 1 MAAPQLRHSRCATPPRGDFCGGTERAOASFTSMENDTQVKGSSPLGPAGLAEPP 60
 Qy 61 AAGPOLPSWLQPERCAVFOCAQCHAVALDSVHLAWDLRSLSLGAVFVRTNNVLEAPFL 120
 Db 61 AAGPOLPSWLQPERCAVFOCAQCHAVALDSVHLAWDLRSLSLGAVFVRTNNVLEAPFL 120
 Qy 121 VGIEGSLKGSSTYNILFGCGCGIPVGFLYLYSTHALAALRGHFCLLSDKNVCYLKTAV 180
 Db 121 VGIEGSLKGSSTYNILFGCGCGIPVGFLYLYSTHALAALRGHFCLLSDKNVCYLKTAV 180
 Qy 181 NASEMDIQNVPLESEKIAELKEKVLTNRLKSLMKIISVETPDQSKEN 229
 Db 181 NASEMDIQNVPLESEKIAELKEKVLTNRLKSLMKIISVETPDQSKEN 229

RESULT 3 ;
 US-09-942-052-730 ;
 Sequence 730, Application US/09942052 ;
 Publication No. US20030170626A1 ;
 GENERAL INFORMATION:
 APPLICANT: Raitano, Arthur B.
 APPLICANT: Paris, Mary
 APPLICANT: Hubert, Rene S.
 APPLICANT: Afar, Daniel
 APPLICANT: Ge, Wangmao
 APPLICANT: Challita-Eid, Pia M.
 TITLE OF INVENTION: NUCLEAR ACID AND CORRESPONDING PROTEIN ENTITLED 85P1B3
 TITLE OF INVENTION: USEFUL IN TREATMENT AND DETECTION OF CANCER
 FILE REFERENCE: 51158-20028.00
 CURRENT APPLICATION NUMBER: US/09/942, 052
 CURRENT FILING DATE: 2001-08-28
 PRIOR APPLICATION NUMBER: 60/228, 432
 PRIOR FILING DATE: 2000-08-28
 NUMBER OF SEQ ID NOS: 744
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 730
 LENGTH: 229
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-09-942-052-731

Query Match 100.0%; Score 1198; DB 3; Length 229;
 Best Local Similarity 100.0%; Pred. No. 1..le-113; Mismatches 0; Indels 0; Gaps 0;
 Matches 229; Conservative 0; Misnatches 0;

Qy 1 MAAPQLRHSRCATPPRGDFCGGTERAOASFTSMENDTQVKGSSPLGPAGLAEPP 60
 Db 1 MAAPQLRHSRCATPPRGDFCGGTERAOASFTSMENDTQVKGSSPLGPAGLAEPP 60
 Qy 61 AAGPOLPSWLQPERCAVFOCAQCHAVALDSVHLAWDLRSLSLGAVFVRTNNVLEAPFL 120
 Db 61 AAGPOLPSWLQPERCAVFOCAQCHAVALDSVHLAWDLRSLSLGAVFVRTNNVLEAPFL 120
 Qy 121 VGIEGSLKGSSTYNILFGCGCGIPVGFLYLYSTHALAALRGHFCLLSDKNVCYLKTAV 180
 Db 121 VGIEGSLKGSSTYNILFGCGCGIPVGFLYLYSTHALAALRGHFCLLSDKNVCYLKTAV 180
 Qy 181 NASEMDIQNVPLESEKIAELKEKVLTNRLKSLMKIISVETPDQSKEN 229
 Db 181 NASEMDIQNVPLESEKIAELKEKVLTNRLKSLMKIISVETPDQSKEN 229

RESULT 4 ;
 US-09-942-052-731 ;
 Sequence 731, Application US/09942052 ;
 Publication No. US20030170626A1 ;
 GENERAL INFORMATION:
 APPLICANT: Raitano, Arthur B.
 APPLICANT: Paris, Mary
 APPLICANT: Hubert, Rene S.
 APPLICANT: Afar, Daniel
 APPLICANT: Ge, Wangmao
 APPLICANT: Challita-Eid, Pia M.
 TITLE OF INVENTION: NUCLEAR ACID AND CORRESPONDING PROTEIN ENTITLED 85P1B3
 TITLE OF INVENTION: USEFUL IN TREATMENT AND DETECTION OF CANCER
 FILE REFERENCE: 51158-20028.00
 CURRENT APPLICATION NUMBER: US/09/942, 052
 CURRENT FILING DATE: 2001-08-28
 PRIOR APPLICATION NUMBER: 60/228, 432
 PRIOR FILING DATE: 2000-08-28
 NUMBER OF SEQ ID NOS: 744
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 731
 LENGTH: 229
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-09-942-052-731

Query Match 100.0%; Score 1198; DB 3; Length 229;
 Best Local Similarity 100.0%; Pred. No. 1..le-113; Mismatches 0; Indels 0; Gaps 0;
 Matches 229; Conservative 0; Misnatches 0;

Qy 1 MAAPQLRHSRCATPPRGDFCGGTERAOASFTSMENDTQVKGSSPLGPAGLAEPP 60
 Db 1 MAAPQLRHSRCATPPRGDFCGGTERAOASFTSMENDTQVKGSSPLGPAGLAEPP 60
 Qy 61 AAGPOLPSWLQPERCAVFOCAQCHAVALDSVHLAWDLRSLSLGAVFVRTNNVLEAPFL 120
 Db 61 AAGPOLPSWLQPERCAVFOCAQCHAVALDSVHLAWDLRSLSLGAVFVRTNNVLEAPFL 120
 Qy 121 VGIEGSLKGSSTYNILFGCGCGIPVGFLYLYSTHALAALRGHFCLLSDKNVCYLKTAV 180
 Db 121 VGIEGSLKGSSTYNILFGCGCGIPVGFLYLYSTHALAALRGHFCLLSDKNVCYLKTAV 180
 Qy 181 NASEMDIQNVPLESEKIAELKEKVLTNRLKSLMKIISVETPDQSKEN 229
 Db 181 NASEMDIQNVPLESEKIAELKEKVLTNRLKSLMKIISVETPDQSKEN 229

RESULT 5
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 704
; LENGTH: 29
; TYPE: PRT
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: 85P1B3 peptide
; OTHER INFORMATION: sequence
; US-09-942-052-704

TITLE OF INVENTION: NUCLEIC ACID AND CORRESPONDING PROTEIN ENTITLED 85P1B3
FILE REFERENCE: 51158-20028.00
CURRENT APPLICATION NUMBER: US/09/942,052
CURRENT FILING DATE: 2001-08-28
PRIOR APPLICATION NUMBER: 60/228,432
PRIOR FILING DATE: 2000-08-28
NUMBER OF SEQ ID NOS: 744
SEQ ID NO: 707
LENGTH: 164
TYPE: PRT
ORGANISM: Unknown Organism
FEATURE:
OTHER INFORMATION: Description of Unknown Organism: Splice variant 1
OTHER INFORMATION: open reading frame 3 peptide sequence
NAME/KEY: MOD RES
LOCATION: (44)
FEATURE:
OTHER INFORMATION: Unknown amino acid or stop
NAME/KEY: MOD RES
LOCATION: (67)
OTHER INFORMATION: Unknown amino acid or stop
FEATURE:
NAME/KEY: MOD RES
LOCATION: (93)
; OTHER INFORMATION: Unknown amino acid or stop
; US-09-942-052-707

Query Match 11.5%; Score 138; DB 3; Length 29;
Best Local Similarity 100.0%; Pred. No. 1.4e-06; Mismatches 0; Indels 0; Gaps 0;
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 7
US-09-890-688-82
; Sequence 82, Application US/09890688
; Publication No. US20030144475A1
; GENERAL INFORMATION:
; APPLICANT: Seishi KATO
; APPLICANT: Chikashi EGUCHI
; TITLE OF INVENTION: Human Proteins and cDNAs thereof
; FILE REFERENCE: 2001-1102A/WMC/00653
; CURRENT APPLICATION NUMBER: US/09/890,688
; CURRENT FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: JP 11-346863
; PRIOR FILING DATE: 1999-12-06
; PRIOR APPLICATION NUMBER: JP 11-34684
; PRIOR FILING DATE: 1999-12-06
; PRIOR APPLICATION NUMBER: JP 2000-31062
; PRIOR FILING DATE: 2000-02-08
; PRIOR APPLICATION NUMBER: JP 2000-34091
; PRIOR FILING DATE: 2000-02-10
; PRIOR APPLICATION NUMBER: JP 2000-34090
; PRIOR FILING DATE: 2000-02-10
; PRIOR APPLICATION NUMBER: JP 2000-35829
; PRIOR FILING DATE: 2000-02-14
; PRIOR APPLICATION NUMBER: JP 2000-35899
; PRIOR FILING DATE: 2000-02-14
; PRIOR APPLICATION NUMBER: JP 2000-71161
; PRIOR FILING DATE: 2000-03-14
; PRIOR APPLICATION NUMBER: JP 2000-160851
; PRIOR FILING DATE: 2000-05-30
; NUMBER OF SEQ ID NOS: 160
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 82
; LENGTH: 233
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-890-688-82

Query Match 9.4%; Score 113; DB 3; Length 233;
Best Local Similarity 27.1%; Pred. No. 0.0083; Mismatches 88; Indels 22; Gaps 8;
Matches 52; Conservative 30; Mismatches 88; Indels 22; Gaps 8;

QY 31 ASFTTSMENDTQQVKGSSPLGAGLGAEPAGPQLPSWLQPERCAVQCAQHVLADS 90
Db 49 ASWSSMSRDAV--ADMRAQL-BEEAAAE----BRPLFLCSGRPLADS 95
; APPLICANT: Ge, Wangmao
; APPLICANT: Challita-Eid, Pia M.
; TITLE OF INVENTION: NUCLEAR ACID AND CORRESPONDING PROTEIN ENTITLED 85P1B3
TITLE OF INVENTION: USEFUL IN TREATMENT AND DETECTION OF CANCER
FILE REFERENCE: 51158-20028.00
CURRENT APPLICATION NUMBER: US/09/942,052
CURRENT FILING DATE: 2001-08-28
PRIOR APPLICATION NUMBER: 60/228,432
PRIOR FILING DATE: 2000-08-28

QY 91 VHLAWDLRS-SLGAWFSSRVTTNNVLEAPFLPLGIGESLKGSTYNLLFGSGCTPGVFLY 149
Db 96 -LSWVAQEDNTNCILLRCVSCNVSVDRQKUSKREENGCVLETLCAGGSNLGVYR 153
; APPLICANT: Afar, Daniel
; APPLICANT: Ge, Wangmao
; TITLE OF INVENTION: USEFUL IN TREATMENT AND DETECTION OF CANCER
FILE REFERENCE: 51158-20028.00
CURRENT APPLICATION NUMBER: US/09/942,052
CURRENT FILING DATE: 2001-08-28
PRIOR APPLICATION NUMBER: 60/228,432
PRIOR FILING DATE: 2000-08-28

QY 150 STHAAALRGRGLSSDKVQCVLL-KTKAVNASEMDIQNPULSEKIAELKEKIVITH 207
Db 154 CTPRNLYDPRDCLSLVIAESTYVGSSERKOVY-SEDEGEVY-SSRVEPLSITOME 209

Qy 208 NRUKSLMKLISE 219 ;
; : ||| :| | ;
; Db 210 DVLIKALOMKLWE 221 ;

RESULT 8
US-10-408-765A-969 ;
Sequence 969, Application US/10408765A ;
Publication No. US20040101874A1 ;
GENERAL INFORMATION:
APPLICANT: Ghosh, Soumira S.
APPLICANT: Fahy, Boin D.
APPLICANT: Zhang, Bing
APPLICANT: Gibson, Bradford W.
APPLICANT: Taylor, Steven W.
APPLICANT: Glenn, Gary M.
APPLICANT: Warnock, Dale E.
TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION
TITLE OF INVENTION: IDENTIFIED IN THE MITOCHONDRIAL PROTEOME
FILE REFERENCE: 66008B_465
CURRENT APPLICATION NUMBER: US/10/408, 765A
CURRENT FILING DATE: 2003-04-04
NUMBER OF SEQ ID NOS: 3077
SEQ ID NO: 969
LENGTH: 233
TYPE: PRT
ORGANISM: Homo sapiens
US-10-408-765A-969

Query Match 9.4%; Score 113; DB 4; Length 233;
Best Local Similarity 27.1%; Pred. No. 0.083; Mismatches 88; Indels 22; Gaps 8;
Matches 52; Conservative 30; Mismatches 88; Indels 22; Gaps 8;

Qy 31 ASFTTSMWDTQVKGSSPLGPGAGPAGPRLPSWLPQPERCAVOCQAHQVLAIDS 90 ;
Db 49 ASWMSSMSBEDASV---ADMERQL--EEBAAAE-----ERPLVFLCGRRPLGS 95 ;
Qy 91 VHLAWDLSR-SLGAVFWSRVTNIVLEAPFLVGGEGSKGTSNLIFGSGCGPVGFLHY 149 ;
Db 96 -LSWVAQSQEDTNCILRCLVSCNVSQKLSKREKGKENGCVLTCGCGSINLGYYR 153 ;
Qy 150 STHALAALRGHFLUSDKMVVCYL--KTKKAVNAESMDIQNVLPESEKIAELKEKIVLTH 207 ;
Db 154 CTPRNLDYKPFGLCILSVAEAEYSVLGSSEKKQIV-SEDKEFLN----ESRVETEKSLTQME 209 ;
Qy 208 NRUKSLMKLISE 219 ;
Db 210 DVLIKALOMKLWE 221 ;

RESULT 9
US-10-437-963-195427
Sequence 195427, Application US/10437963
Publication No. US20040123343A1 ;
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Wu, Wei
APPLICANT: Boukharov, Andrey A.
APPLICANT: Barbazuk, Brad
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 21(5322)B
CURRENT APPLICATION NUMBER: US/10/437, 963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID NOS: 204966
SEQ ID NO: 154548
LENGTH: 361
TYPE: PRT
ORGANISM: Oryza sativa
FEATURE: ;
OTHER INFORMATION: Clone ID: PAT_MRT4530_54398C.1.pep

RESULT 10
US-10-437-963-154548
Sequence 154548, Application US/10437963
Publication No. US20040123343A1 ;
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Wu, Wei
APPLICANT: Boukharov, Andrey A.
APPLICANT: Li, Jing
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 21(5322)B
CURRENT APPLICATION NUMBER: US/10/437, 963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID NOS: 204966
SEQ ID NO: 154548
LENGTH: 361
TYPE: PRT
ORGANISM: Oryza sativa
FEATURE: ;
OTHER INFORMATION: Clone ID: PAT_MRT4530_54398C.1.pep

Query Match 7.7%; Score 92; DB 4; Length 361;
Best Local Similarity 25.3%; Pred. No. 2.1; Mismatches 61; Indels 60; Gaps 14;
Matches 61; Conservative 28; Mismatches 92; Indels 60; Gaps 14;

Qy 2 AAQPLRHRSCATPPRGDFCGGTERRAIDOSAFITSMWTQVKGSSPLGPGAGPRA 61 ;
Db 49 APPLPLPRRAVRAKAAQPGSGGTSSAASPAST----DWWVPGSREATPSG-PADDV 102 ;
Qy 62 AGPOLP---SW---LQPSCAVOCQAHQVLAIDSRSLSGAVFWSRVTNIVL 115 ;
Db 103 AGRGSPPAVALSWEBLOVNGRLIEAGA--RVIIGREIAEARGLHRM---SELGN-- 152 ;
Qy 116 EAFTLUGEGSLSKGSTNLL--FCGSGCGI-----PGVFLHUSTHALAAL---RGH 161 ;
Db 153 ---LSEIRGSLR-VTYTGHLQLAGCGJKSTIPANDEFSLTSSLAAAMEIPSX 207 ;

Qy 162 FCUSSDEM-----VCLKTKIAVNASEMDIQNV-----PLSEKIAEKEKI 203
Db Sequence 18389, Application US/10369493
Qy 204 V 204 ;
Db 267 L 267 ;

RESULT 11 US-10-369-493-18389
; Sequence 18389, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; PRIORITY NUMBER: US 60/360,039
; PRIORITY FILING DATE: 2003-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO: 18389
; LENGTH: 695
; TYPE: PRT
; ORGANISM: Lactococcus lactis
; US-10-369-493-18389

Query Match
Best Local Similarity 7.4%; Score 92; DB 4; Length 695;
Matches 38; Conservative 25.3%; Pred. No. 5,2; Mismatches 50; Indels 34; Gaps 7;

Qy 101 LGAVVFFRVTNNVLEAPFLVGIEGSIKGSTNLLFGSCGIPVGFLYSTHAALALRG 160
Db 101 LGTTFP----FYSGTPPFSGAKGELSKRPAAMMLMTMGITVAY-AVSVATMNSLNG 153

Qy 161 HR-----CLSSDAAVCLKTKIAVNASE-MDI-----ONVPSE-K 195
Db 154 RKGWNMFPELATLIVMLIGHJTEMKAIMGADALKOLASLVPKKHLSKGKDVELSELK 213

Qy 196 TABLEKIVTULNRKLISMLKTSLEVTPDOS 225
Db 214 VGDIL-LIVKENEKIAPDSLILSEBAUNDES 241

RESULT 12 US-09-780-525-2
; Sequence 2, Application US/09780525
; Patent No. US2002004223A1
; GENERAL INFORMATION:
; APPLICANT: Bin-Bing Zhou
; APPLICANT: Yuan Zhu
; APPLICANT: Priya Chaturvedi
; APPLICANT: Mark R. Hurle
; APPLICANT: Xiaotong Li
; TITLE OF INVENTION: FHARI, A NEW RING FINGER PROTEIN
; FILE REFERENCE: GP-7068-C1
; CURRENT APPLICATION NUMBER: US/09/780,525
; CURRENT FILING DATE: 2001-02-09
; PRIORITY NUMBER: 09/1456,876
; PRIORITY FILING DATE: 1999-12-08
; NUMBER OF SEQ ID NOS: 2
; SEQ ID NO: 2
; LENGTH: 664
; TYPE: PRT
; ORGANISM: HOMO SAPIENS
; US-10-437-963-186569

Query Match
Best Local Similarity 7.4%; Score 89; DB 3; Length 664;
Matches 52; Conservative 23.0%; Pred. No. 9,9; Mismatches 74; Indels 74; Gaps 11;

Qy 8 HRSRCATPPRGDFC-----GGTERAIDQA---SFTTNEWDTQVKASSPL----- 50
Db 434 YRQAAOPPH---CPAPEGEFPAGPAQALGDAAPSNTSVLTTAVQDYCPOLOSSHALCTCCFQ 490

Qy 51 ---GPAGLGAEPPAAGPQLPSWLQPERCAVFOCAGCHAVLADSVLAWDSR----- 99
Db 491 PMDRRAEREQPVRAPQ-----OCAVC---LQPFCHLWGCITRGCGCL 534

Qy 100 ---SIGAVVFFRVTNNVLEAPFLVGIEGSIKGSTY-NLFCGSCGIPVGFLYTHA 153
Db 535 PRCEBLNLGDKDGLGVNNSYESTDLKVNLYAT-RGLTWKML-----TES 578

Qy 154 ALAALRHFCS-----SDRKCVCYLKTKIAVNASEMDIQNPULSE 194
Db 579 LVALQGVFLSLSDYRVTGDTVLVLCYCGLRSFRRLTYQYRQNPASE 624

RESULT 13 US-10-437-963-186569
; Sequence 186569, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: Ia Rosa, Thomas J.
; APPLICANT: Kovacic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO: 186569
; LENGTH: 435
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_83357C.1.pep
; US-10-437-963-186569

Query Match
Best Local Similarity 7.4%; Score 88.5; DB 4; Length 435;
Matches 50; Conservative 22.9%; Pred. No. 6,2; Mismatches 82; Indels 59; Gaps 12;

Qy 2 AAQPL-RH--RSRCATPPRGDFCSTERAIDQASETTSMDTQVVKGSSPLGPAGLA 57
Db 41 APEPLSCRHGRHRCAVD---GGAGRETERPSPAPQ-----REESPSSGLAAL 88

Qy 58 EPPAAGQPOLPWLQPERCAVFOCQCHA--VLDASYHLMDSLRSIGAVVFRVTNNVL 115
Db 89 EDPSPQPGVPLILL-----LCCTCYKEICSEYVVRTDLNII-----LASNALS 135

Qy 116 EPPFLVGIEGSIKGSTNLLFGSCGIPVGFLYSTHAALALRGHFCUSSDDKMYCYLIK 175
Db 136 EGPF-----SMRKARFLGSAS---APSVQKTEWP-----CATDSKKCY-LQ 173

Qy 176 TKIAVNASEMDIQNV-----VPLSEKIAEKEKIVLTH 207
Db 174 NSFGGGTTEDBBOSSLNFYLYPSKELUDPKMSIFDH 211

RESULT 14 US-10-437-963-155606

Sequence 155606, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21-(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 155606
; LENGTH: 848
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(848)
; OTHER INFORMATION: unsure at all xaa locations
; OTHER INFORMATION: Clone ID: PAT_MRT4530_55353C.1.pep
; US-10-437-963-155606

Query Match 7.3%; Score 87.5; DB 4; Length 848;
Best Local Similarity 22.1%; Pred. No. 20; DB 4; Length 848;
Matches 65; Conservative 23; Mismatches 109; Indels 97; Gaps 13;

Qy 16 PRGDPFGGERATIQAQSFTTSMDTQVKGSSPPLGAGAERP----- 60
Db 85 PRGRFLDGGQVQHQTASCHLTDPLFLKGCGCIPRKGKRNTPPPRLGGNQEGRHL 144
Qy 61 AAGPOLPSWQPERCAVFOAQCH-----AVLADSVHLAWDLSR---- 99
Db 145 TLGPDPVPEGARPRGLCIPQASGHDTPGPISPTSLVLNTRTRISIDEWVATMDISEANEG 204
Qy 100 --SILGAVV-FSRVTNNV---VIAEPLVIGIESLKL-GSTYNLLFCG---- 138
Db 205 YVSCGSVIENRSMQKAGACVRAQSXPACXGIPTVGKVGSV--LIFTARMGEGLCHMFT 262
Qy 139 -----SCGIVV-----SGLYSPH--ALAALRGHRCCLSSKDNVCYL 173
Db 263 GSKAMECGVGMCLVWPWLADELGPRSGIQGLNHRRDVKAVDGHICCEEDAVNCIP 322
Qy 174 LTKTKAVNSASEMDIONVPLSEKIELKEKIVLTHNRKSLMKILSEVTDDQSKP 227
Db 323 KLRKTVGSASE-----AKEAVKPAVKQEKIRS-VKVLISLVS-DLSLP 363

RESULT 15
US-10-282-122A-51802
; Sequence 52802, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangbu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Hasselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Travick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forryth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITHA.034A

CURRENT APPLICATION NUMBER: US/10/282-122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-05
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See file wrapper or PALM
; NUMBER OF SEQ ID NOS: 7614
; SEQ ID NO 51802
; LENGTH: 669
; TYPE: PRT
; ORGANISM: Clostridium acetobutylicum
; US-10-282-122A-51802

Query Match 7.2%; Score 85.5; DB 4; Length 669;
Best Local Similarity 27.4%; Pred. No. 18; DB 4; Length 669;
Matches 37; Conservative 22; Mismatches 45; Indels 31; Gaps 8;

Qy 96 DLSDR--SILGAVVFSRVTNNVLEAPFLVIGIESLKL-GSTYNL----LFCGSCGIPVG 146
Db 366 DIGKKVKVKGSRVFRSNDV--PEIMGVTEETEGTNEIAPTCPCSESEIVEGV 422
Qy 147 HLYSTHAALAAALRGHFCFLSSDKRNVYLLKTAUNASEMDIONVPLSEKIAL-LKSKIV 204
Db 423 HL-----F---ENTISCKPQMVKS-VHFAAREAMNIEGSEKTBQLFFSK-- 465
Qy 205 LTHNRKSLMKILSE 219
Db 466 LNIKSIISDLYRITKE 480

Search completed: May 18, 2006, 15:56:08
Job time : 183 sec

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OM protein - protein search, using SW model

Run on: May 18, 2006, 15:53:12 ; Search time 10 Seconds
(without alignments)
48.917 Million cell updates/sec

Title: US-09-942-052a-728
Perfect score: 1198
Sequence: 1 MAAQPLRHRSRCATPPRGDF.....LKSLSMKILSBEVTPDQSKPEN 229

Scoring table: BLOSUM62
Gapext 10.0 , Gapext 0.5

Searched: 21570 seqs, 2136119 residues

Total number of hits satisfying chosen parameters: 21570

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA New: *

1: /EMC_Celerra_SIDS3/ptodata/1/pupba/us09_NEW_PUB.pep: *
2: /EMC_Celerra_SIDS3/ptodata/1/pupba/us06_NEW_PUB.pep: *
3: /EMC_Celerra_SIDS3/ptodata/1/pupba/us07_NEW_PUB.pep: *
4: /EMC_Celerra_SIDS3/ptodata/1/pupba/us08_NEW_PUB.pep: *
5: /EMC_Celerra_SIDS3/ptodata/1/pupba/PCT_NEW_PUB.pep: *
6: /EMC_Celerra_SIDS3/ptodata/1/pupba/us10_NEW_PUB.pep: *
7: /EMC_Celerra_SIDS3/ptodata/1/pupba/us11_NEW_PUB.pep: *
8: /EMC_Celerra_SIDS3/ptodata/1/pupba/us60_NEW_PUB.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	71.5	6.0	1006	US-10-511-937-2425
2	67	5.6	388	US-11-312-958-44
3	67	5.6	672	US-10-370-959-152
4	66.5	5.6	345	US-11-181-115-5
5	66.5	5.6	345	US-11-181-115-8
6	66.5	5.6	345	US-11-181-115-12
7	66.5	5.6	1722	US-10-505-928-780
8	66	5.5	836	US-10-503-131-35
9	65	5.4	331	US-11-182-24-9
10	65	5.4	969	US-10-505-928-94
11	63.5	5.3	5738	US-10-505-928-150
12	63	5.3	555	US-11-242-503-45
13	62	5.2	314	US-10-538-66-366
14	61.5	5.1	673	US-11-101-316-16
15	61.5	5.1	799	US-10-505-928-716
16	61	5.1	489	US-10-196-749-116
17	61	5.1	642	US-10-505-928-259
18	60.5	5.1	240	US-10-511-937-2977
19	60.5	5.1	459	US-10-370-953-60
20	60.5	5.1	51	US-10-511-937-2625
21	60.5	5.1	999	US-10-136-749-434
22	60.5	5.1	1821	US-10-505-928-451
23	60	5.0	374	US-10-505-928-46
24	60	5.0	382	US-10-136-749-20
25	60	5.0	492	US-10-505-928-642

ALIGNMENTS

RESULT 1
US-10-511-937-2425
; Sequence 2425, Application US/10511937
; Publication No. US20060088836A1
; GENERAL INFORMATION:
; APPLICANT: EXPRESSION DIAGNOSTICS, INC.
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: FTY, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Prentice, James
; APPLICANT: Morris, Macdonald
; APPLICANT: Rosenberg, Steven
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING
; TITLE OF INVENTION: AND MONITORING TRANSPLANT REJECTION
; FILE REFERENCE: 506612000104
; CURRENT APPLICATION NUMBER: US/10/511-937
; CURRENT FILING DATE: 2004-10-19
; PRIORITY APPLICATION NUMBER: PCT/US2003/012946
; PRIORITY FILING DATE: 2003-04-24
; PRIORITY APPLICATION NUMBER: US 10/131,831
; PRIORITY FILING DATE: 2002-04-24
; SEQ ID NO 2425
; LENGTH: 1006
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-511-937-2425
Query Match Score 6.0%; Score 71.5; DB 6; Length 1006;
Best Local Similarity 21.1%; Pred. No. 4.4%;
Matches 56; Conservative 30; Mismatches 79; Indexes 101; Gaps 14;
Sequences 35, Appli
Sequence 9, Appli
Sequence 94, Appli
Sequence 150, Appli
Sequence 12, Appli
Sequence 780, Appli
Sequence 35, Appli
Sequence 9, Appli
Sequence 94, Appli
Sequence 150, Appli
Sequence 45, Appli
Sequence 366, Appli
Sequence 16, Appli
Sequence 716, Appli
Sequence 116, Appli
Sequence 259, Appli
Sequence 297, Appli
Sequence 60, Appli
Sequence 2625, Appli
Sequence 434, Appli
Sequence 451, Appli
Sequence 46, Appli
Sequence 20, Appli
Db 291 QPARGDIAQCQPCPGLYKSSAGNAPCSPCPARSHAPNA-----APVCP 334
Qy 53 AGIGG-----AERPAGPOLPS-----WQPERCAVFOCAQCHAVALDSVHLANDSLR 99
Qy 4 QPLRHRSRCATPPRGDF-----CGGTERADTOASFTTSMBDTQVVKGSBLGP 52
Db 335 CLEGFIYRASSDPPEAPCTGP--PSAPOBLWF-----VOGSALMLHWRPLR 378
Qy 100 SLAG---WFSRVTNNVTLRPLFLGEGISKGSTYNLURGSGCGIPPGFH-----LYST 151
Db 379 ELLGGGRGDLF-----NTVCKE-----CEGRQBPASGGGTCHRCRDDEVHFDPRORGAT 428

RESULT 2
US-11-312-958-44
Sequence 44, Application US/11312958
Publication No. US200610100152A1
GENERAL INFORMATION:
APPLICANT: Millennium Pharmaceuticals, Inc.
APPLICANT: Rosenthal, Julie Beth
APPLICANT: Silos-Santiago, Inmaculada
TITLE OF INVENTION: METHODS AND COMPOSITIONS IN TREATING
TITLE OF INVENTION: PAIN AND PAINFUL DISORDERS USING 9949, 14230, 760, 62553,
TITLE OF INVENTION: 12216, 17719, 41897, 47174, 33408, 10002, 16209, 314, 636,
TITLE OF INVENTION: 697410, 33260, 619, 159, 215, 224, 4373,
TITLE OF INVENTION: 95331, 22245, 2387, 16658, 55054, 216314, 1613, 1675, 9569 OR
TITLE OF INVENTION: 14242 MOLECULES
FILE REFERENCE: MPI-02-7P1RNOMNM
CURRENT APPLICATION NUMBER: US/11/312,958
CURRENT FILING DATE: 2005-12-20
PRIOR APPLICATION NUMBER: US/10/369,022
PRIOR FILING DATE: 2003-02-19
PRIOR APPLICATION NUMBER: US 60/3360,495
PRIOR FILING DATE: 2002-02-28
PRIOR APPLICATION NUMBER: US 60/370,121
PRIOR FILING DATE: 2002-04-04
PRIOR APPLICATION NUMBER: US/10/373,010
PRIOR FILING DATE: 2002-04-16
PRIOR APPLICATION NUMBER: US 60/373,908
PRIOR FILING DATE: 2002-04-19
PRIOR APPLICATION NUMBER: US 60/377,717
PRIOR FILING DATE: 2002-05-03
PRIOR APPLICATION NUMBER: US 60/379,949
PRIOR FILING DATE: 2002-05-13
PRIOR APPLICATION NUMBER: US 60/382,409
PRIOR FILING DATE: 2002-05-21
PRIOR APPLICATION NUMBER: US 60/385,280
PRIOR FILING DATE: 2002-06-03
PRIOR APPLICATION NUMBER: US 60/386,879
PRIOR FILING DATE: 2002-06-05
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 64
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 44
LENGTH: 388
TYPE: PRT
ORGANISM: Homo sapiens
US-11-12-958-44
Query Match Score 5.6%; Score 67; DB 7; Length 388;
Best Local Similarity 25.0%; Pred. No. 3.7; Mismatches 31; Indels 60; Gaps 7;
Matches 36; Conservative 36; MisMatches 60; Indels 49; Gaps 7;
QY 95 WDLRSRGAWFWSRVTNNVLEAPFLVIGEGLKGSTN-----LLFGSC 140
Db 66 WKPS---GIVESRVYDEVDTSKGIADWPENPKGSRLNYAENLRLRKENDRVALYARE 121
QY 141 G----IPVGFLYSTHAAI--AALRGHICLSSDKMVWVILKIK-----AIVN 181
Db 122 GKERIVKVTFEELRQEVALFAAMRKMGVKGDRVYGLPNSEBAVAMLAASIGIWS 181
QY 182 ASEMDIQNPVLEKIEKEKIVT-----HHLRKLMLKILSEBTPOSK 226
Db 182 STSPDFGGVGLDRPSQLOPKLIFSVAVWVYNGKEHNHMEKLQOVVKGL-PDJKK 235
Db 59 PLPPPGGL-----TPERLHARQLYACAVCFVFMGEVUGGYLAHSLA----- 101
RESULT 3
US-10-70-959-152
Sequence 152, Application US/10170959
Publication No. US20060088907A1
GENERAL INFORMATION:

RESULT 4
US-11-181-115-5
Sequence 5, Application US/11181115
Publication No. US20060088511A1
GENERAL INFORMATION:
APPLICANT: Dana Farber Cancer Therapy Center
TITLE OF INVENTION: Cancer Therapy Sensitizer
FILE REFERENCE: 7032/2072
CURRENT APPLICATION NUMBER: US/11/181,115
CURRENT FILING DATE: 2005-07-14
PRIOR APPLICATION NUMBER: PCT/US04/00901

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; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 60/440,009
; SEQ ID NO 12
; LENGTH: 345
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-11-181-115-5

Query Match      5.6%; Score 66 5; DB 7; Length 345;
Best Local Similarity 25.0%; Pred. No. 3.6; Matches 16; Conservative 8; Mismatches 15; Indels 25; Gaps 2;
Matches 16; Conservative 8; Mismatches 15; Indels 25; Gaps 2;

Qy   47 SSPPLPGAGIQAEEPAGP-----QLPSWLQPERCAV-----FOCA 81
Db   278 SAPMAPAVGGGECAPCCCLPOETVAVWQCGCDWFFHVACVGCSIQAAREADFRCP 337
Qy   82 QCHA 85
Db   338 GCRA 341

RESULT 5
US-11-181-115-8
; Sequence 8, Application US/11181115
; Publication No. US20060088511A1
; GENERAL INFORMATION:
; APPLICANT: Dana Farber Cancer Center
; TITLE OF INVENTION: Cancer Therapy Sensitizer
; FILE REFERENCE: 7032/2072
; CURRENT APPLICATION NUMBER: US/11/181,115
; CURRENT FILING DATE: 2005-07-14
; PRIOR APPLICATION NUMBER: PCT/US04/000901
; PRIOR FILING DATE: 2004-01-14
; PRIORITY APPLICATION NUMBER: US 60/440,009
; PRIORITY FILING DATE: 2003-01-14
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 8
; LENGTH: 345
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-11-181-115-8

Query Match      5.6%; Score 66.5; DB 7; Length 345;
Best Local Similarity 25.0%; Pred. No. 3.6; Matches 16; Conservative 8; Mismatches 15; Indels 25; Gaps 2;
Matches 16; Conservative 8; Mismatches 15; Indels 25; Gaps 2;

Qy   47 SSPPLPGAGIQAEEPAGP-----QLPSWLQPERCAV-----FOCA 81
Db   278 SAPMAPAVGGGECAPCCCLPOETVAVWQCGCDWFFHVACVGCSIQAAREADFRCP 337
Qy   82 QCHA 85
Db   338 GCRA 341

RESULT 6
US-11-181-115-12
; Sequence 12, Application US/11181115
; Publication No. US20060088511A1
; GENERAL INFORMATION:
; APPLICANT: Dana Farber Cancer Center
; TITLE OF INVENTION: Cancer Therapy Sensitizer
; FILE REFERENCE: 7032/2072
; CURRENT APPLICATION NUMBER: US/11/181,115
; CURRENT FILING DATE: 2005-07-14
; PRIOR APPLICATION NUMBER: PCT/US04/000901
; PRIOR FILING DATE: 2004-01-14
; PRIORITY APPLICATION NUMBER: US 60/440,009
; PRIOR FILING DATE: 2003-01-14

Query Match      5.6%; Score 66.5; DB 7; Length 345;
Best Local Similarity 25.0%; Pred. No. 3.6; Matches 16; Conservative 8; Mismatches 15; Indels 25; Gaps 2;
Matches 16; Conservative 8; Mismatches 15; Indels 25; Gaps 2;

Qy   47 SSPPLPGAGIQAEEPAGP-----QLPSWLQPERCAV-----FOCA 81
Db   278 SAPMAPAVGGGECAPCCCLPOETVAVWQCGCDWFFHVACVGCSIQAAREADFRCP 337
Qy   82 QCHA 85
Db   338 GCRA 341

RESULT 7
US-10-505-928-780
; Sequence 780, Application US/10505928
; Publication No. US20060088532A1
; GENERAL INFORMATION:
; APPLICANT: Ludwig Institute for Cancer Research et al.
; TITLE OF INVENTION: LYMPHATIC ENDOTHELIAL GENES
; FILE REFERENCE: 28967/39178
; CURRENT APPLICATION NUMBER: US/10/505-928
; CURRENT FILING DATE: 2004-08-27
; PRIOR APPLICATION NUMBER: US 60/363,019
; PRIORITY FILING DATE: 2002-03-07
; NUMBER OF SEQ ID NOS: 866
; SOFTWARE: PatentIn 3.2
; SEQ ID NO 780
; LENGTH: 1722
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-505-928-780

Query Match      5.6%; Score 66.5; DB 6; Length 1722;
Best Local Similarity 22.5%; Pred. No. 35; Matches 18; Conservative 6; Mismatches 15; Indels 41; Gaps 2;
Matches 18; Conservative 6; Mismatches 15; Indels 41; Gaps 2;

Qy   35 TSMEDDTQVKKGSSPLGLPGAGIQAEEPAGPQLPSWLQPERC----- 75
Db   784 TKEBWVWQPKGST-----PKTPDWYNDRAGHGPPLIEGSSEYWFAVAD 828
Qy   76 -----AVFOCQOCHAVLA 88
Db   829 LHINYEAVLYCASNHSFLA 848

RESULT 8
US-10-509-131-35
; Sequence 35, Application US/0509131
; Publication No. US20060089493A1
; GENERAL INFORMATION:
; APPLICANT: Biogen Idec Inc.
; APPLICANT: McLaughlin, Karen
; APPLICANT: Gately, Dennis
; TITLE OF INVENTION: NOVEL GENE TARGETS AND LIGANDS THAT BIND THERETO FOR TREATMENT OF
; FILE REFERENCE: 037003-032886
; CURRENT APPLICATION NUMBER: US/10/509,131
; CURRENT FILING DATE: 2004-09-28
; PRIOR APPLICATION NUMBER: US 60/367,727
; PRIOR FILING DATE: 2002-03-28
; PRIOR APPLICATION NUMBER: US 60/381,328
; PRIOR FILING DATE: 2002-05-20
; PRIOR APPLICATION NUMBER: US 60/386,747
; PRIOR FILING DATE: 2002-06-10

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PRIOR APPLICATION NUMBER: US 60/427,564
; PRIORITY FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 35
; LENGTH: 836
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-509-131-35

Query Match 5.5%; Score 66; DB 6; Length 636;
; Best Local Similarity 22.0%; Pred. No. 14; Mismatches 43; Indels 92; Gaps 8;
; Matches 42; Conservative

Qy 5 PLRHRSRATPPRGDFCGTERAIDQASFTTSWEWDTQVKGSSPLGPA-----
; Db 496 PFTYRSR--SPCRASEAGGS-----
; Qy 54 -----GIGAEPAPAGQOLPSNQPERCAVFOCAQCHAHLADSVHLAWDLRSLAGAVF 106
; Db 533 LPAVHSHGAGRGPWPGPASPQGDQVSICSL-----
; Qy 107 SRVTNNVVLAEPLLUGEGS-----LKGSTYNLFCGSCGIP-----
; Db 575 HRGPNSSTSE---VGLBASPQAPPDLRRTWKG-HELPSCACCEPQPSAGPSAGAG 629
; Qy 144 -----VGPHLY 149
; Db 630 SSTLFFLGPHLY 640

RESULT 9
US-11-118-524-9
; Sequence 9, Application US/11118524
; Publication No. US20060088847A1
; GENERAL INFORMATION:
; APPLICANT: GU, WEI
; TITLE OF INVENTION: SUPPRESSION AND USES THEREOF
; FILE REFERENCE: 19340-497US2
; CURRENT APPLICATION NUMBER: US/11/118,524
; PRIORITY APPLICATION NUMBER: 60/610,506
; PRIORITY FILING DATE: 2004-09-15
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 9
; LENGTH: 331
; TYPE: PRT
; ORGANISM: homo sapiens
; US-11-118-524-9

Query Match 5.4%; Score 65; DB 6; Length 636;
; Best Local Similarity 20.9%; Pred. No. 5; Mismatches 28; Indels 32; Gaps 6;
; Matches 29; Conservative

Qy 101 LGAVWFSRVTNNVVLAEFP-----LVGIEGSKR-GSTYNNLFCGSCGIPVGPHLYST 151
; Db 71 IGVIGVLGAIYNNCITDVFPMVWVKLKGKGTFRDLGDSH-----PV----LYQS 117

152 HMAALALRHEFCISSDKOMCYLKKATINASEMDIQNPVLESEKIAEKEKTVLTHNLK 211
; Db 118 LKDLDLBEYEGN--VBDMMITFQI-----SQTDLFGNPMMDLKENGDKIPITNENRK 167

212 SLMKLILSEVTPDOS 225
; Db 168 EFWVLYSDYLINKS 181

RESULT 10
US-10-505-928-150
; Sequence 150, Application US/10505928
; Publication No. US20060088532A1
; GENERAL INFORMATION:
; APPLICANT: Ludwig Institute for Cancer Research et al.
; TITLE OF INVENTION: LYMPHATIC ENDOTHELIAL GENES
; FILE REFERENCE: 20967/39178
; CURRENT APPLICATION NUMBER: US/0/505,928
; PRIORITY APPLICATION NUMBER: 60/363,019
; PRIORITY FILING DATE: 2002-03-07
; NUMBER OF SEQ ID NOS: 866
; SOFTWARE: PatentIn 3.2
; SEQ ID NO 150
; LENGTH: 5738
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-505-928-150

Query Match 5.3%; Score 63.5; DB 6; Length 5738;
; Best Local Similarity 24.6%; Pred. No. 4 2e+02; Mismatches 52; Indels 73; Gaps 14;
; Matches 18; Conservative

Qy 8 HRSR--CATPP--RDFCGST--ERA--IDQASFTTS--MENDTQVKGSSPLGPA 53
; Db 3091 HOSRORSCVDPPRPGNGAPCPGASQERAPCGHOPCGSGGTGKVLGW-----HGGSTVGTG 3146

Qy 54 GLGAAEPAPAGQOLPSNQPERCAVFOCAQCHAHLADSVHLAWDLRSLAGAVF 98
; Db 3147 RLSGJ--PA--PRITWCSPTRURAGPCVCECSVPEGAGAPMLPGSQQKQLWALC 3202
; Qy 99 RSLGAUVF-----SRVTNNVVL-----EARPLVGLTGSLSKGSTYLN-----134
; Db 3203 GSPLSLLCPLGLSALFHILPGRCPPGGLHTRCLPLSECPLVNGBELKWKVGSFLGN 3262

* QY 135 -----LPC--GSCGIPVGFLHYSTA 153
Db 3263 CSQCVCEKGGLCQPGCPPLPGMSAWSSWA 3293

- RESULT 12
US-11-242-505A-45
; Sequence 45, Application US/11242505A
; Publication No. US20060098656A1
; GENERAL INFORMATION:
; APPLICANT: Carroll, Joseph M.
; TITLE OF INVENTION: Methods and Compositions for Treating
; TITLE OF INVENTION: Hematological Disorders Using 232, 2059, 10630, 12848, 13875,
; FILE REFERENCE: MP12001-288PIRPFLOMIM
; CURRENT APPLICATION NUMBER: US/11/242, 505A
; CURRENT FILING DATE: 2005-10-03
; PRIOR APPLICATION NUMBER: US 10/290, 078
; PRIOR FILING DATE: 2002-11-07
; PRIOR APPLICATION NUMBER: US 60/347, 949
; PRIOR FILING DATE: 2001-11-07
; PRIOR APPLICATION NUMBER: US 10/320, 351
; PRIOR FILING DATE: 2002-12-16
; PRIOR APPLICATION NUMBER: 60/341, 606
; PRIOR FILING DATE: 2001-12-17
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 555
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-11-242-505A-45

RESULT 13
Query Match 5.3%; Score 63; DB 7; Length 555;
Best Local Similarity 26.1%; Pred. No. 18; Mismatches 27; Indels 18; Gaps 3;
Matches 18; Conservative 6; Mismatches 27; Indels 18; Gaps 3;

QY 37 MEWDTQVKSSP-----LGPRGLGAAEPAAQRLPSWLQPER-CAVFQCAQ 82
Db 264 IHWDCASARPRRGPEIERPGRGGDDHNDTGECCQGGBEPRGG---RWDEDDEBQWSVVECED 319
QY 83 CHAVLADSV 91
Db 320 CELIPADHV 328

RESULT 14
US-11-101-316-16
; Sequence 16, Application US/11101316
; Publication No. US20060099657A1
; GENERAL INFORMATION:
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; TITLE OF INVENTION: UNDEREXPRESSED IN MELANOMA
; FILE REFERENCE: P323001C17C1
; CURRENT APPLICATION NUMBER: US/11/101, 316
; CURRENT FILING DATE: 2005-04-06
; PRIOR APPLICATION NUMBER: 10/063526
; PRIOR FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: 10/006867
; PRIOR FILING DATE: 2001-12-06
; PRIOR APPLICATION NUMBER: PCT/US00/23328
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: 09/380137
; PRIOR FILING DATE: 1999-08-25
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: 1999-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
; NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 16
; LENGTH: 673
; TYPE: PRT
; ORGANISM: Homo sapien
; US-11-101-316-16

RESULT 15
US-10-538-066-366
; Sequence 366, Application US/10538066
; Publication No. US20060094649A1
; GENERAL INFORMATION:
; APPLICANT: Epimmune Inc.
; TITLE OF INVENTION: HLA-AL, -A2, -A3, -A24, -B7, and -B44 Tumor Associated Antigen
; TITLE OF INVENTION: Peptides and Compositions
; FILE REFERENCE: 2060_015PC06
; CURRENT APPLICATION NUMBER: US/10/538, 066
; CURRENT FILING DATE: 2005-06-09
; PRIOR APPLICATION NUMBER: US 60/432, 017
; PRIOR FILING DATE: 2002-12-10
; NUMBER OF SEQ ID NOS: 767
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 366
; LENGTH: 314
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-538-066-366

Query Match 5.2%; Score 62; DB 6; Length 314;
Best Local Similarity 22.1%; Pred. No. 10; Mismatches 79; Indels 42; Gaps 7;
Matches 40; Conservative 20; Mismatches 79; Indels 42; Gaps 7;

QY 5 PLRHRSCATPPRG-----DFGGTERAIQASFTSMEWDHQVKSSPLGPAGLG 56

; PRIORITY APPLICATION NUMBER: US 60/363,019
; PRIOR FILING DATE: 2002-03-07
; NUMBER OF SEQ ID NOS: 866
; SOFTWARE: PatentIn 3.2
; SEQ ID NO: 715
; LENGTH: 799
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-505-928-716

Query Match 5.1%; Score 61.5; DB 6; Length 799;
Best Local Similarity 29.0%; Pred. No. 43; Mismatches 8; Indels 35; Gaps 8;
Matches 36; Conservative 36;

Qy 65 QLPWLQBRCAVFOCAQCH-----AVLAVSHVLWDL-SRSLGAVFSAVT 110
Db 383 ELSYWDOPBDNLNLFPTATCGDVSYPGORKCEGLKIGDTASFEVSLEARSCP---SRHT 438
Qy 111 NNIVVLEAPFLVGLFGSLK-GSTVNLLFCGCGGIPVGFFHLYSTHAALALAALRGHFCLOSSDKM 169
Db 439 EHVPALRP--VGFRDSLEVGVTN--C-TGGCSVGLPNSAR-----CNGSCTY 482
Qy 170 VCVL 173
Db 483 VCVL 486

Search completed: May 18, 2006, 15:56:23
Job time : 11 secs